

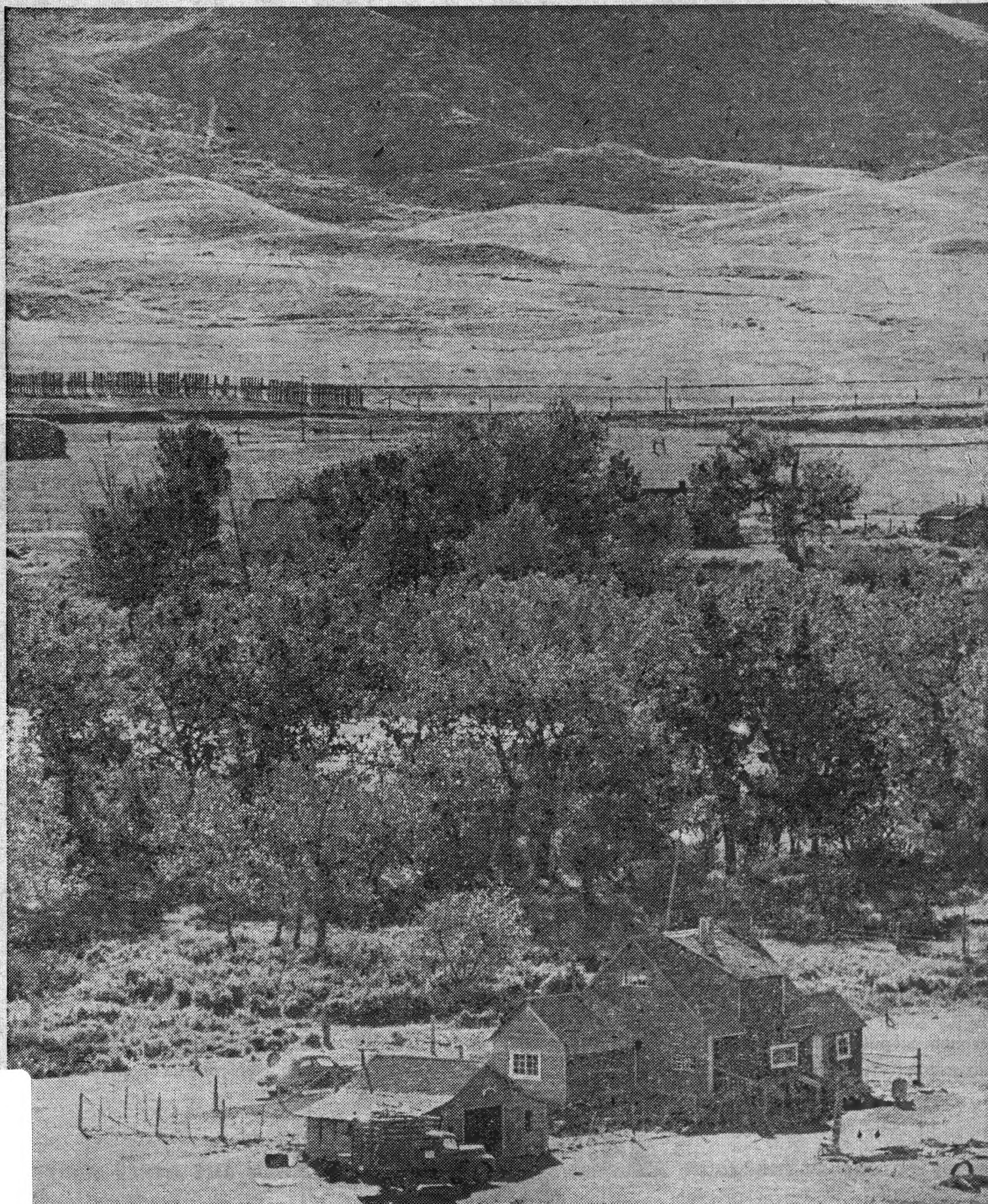
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Farm and Ranch REVIEW

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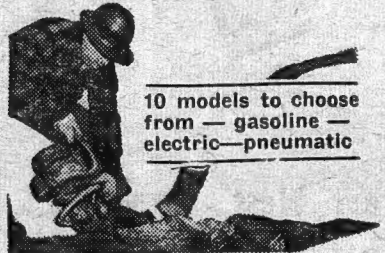
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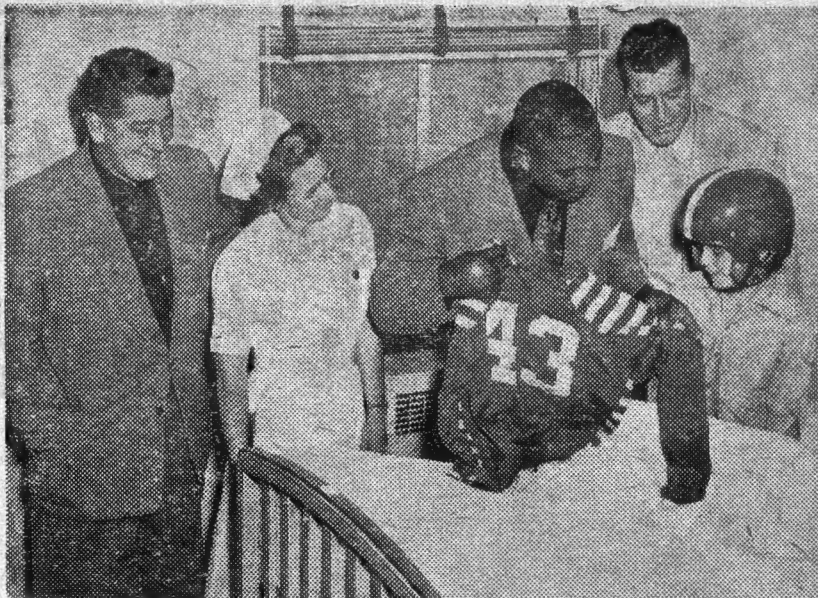
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The Farm and Ranch Review

Graphic Arts Bldg., Calgary, Alberta
Vol. XLVIII. Founded in 1905 by Charles W. Peterson No. 11
James H. Gray, Editor P. Peterson, Advertising Manager

CONTENTS

	Page
Editorials	5 and 6
Alberta's Master Farmers	8
Kerry Wood	14
The Garden Page	18
"I Saw . . ."	22
What's Right About Trash	24
Dr. Morley's Sermon	26
Aunt Sal	34
Louise Price Bell	36
Crossword	38



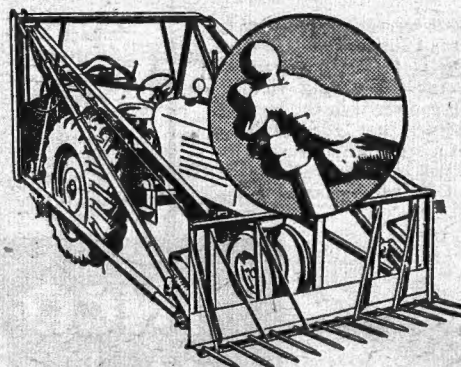
Published Monthly by
Farm and Ranch Review Limited
Printed by Western Printing &
Lithographing Co. Ltd.
Graphic Arts Bldg., Calgary, Alta.
Entered as Second-class Mail
Matter at the Post Office,
Calgary, Alta.
Member of the
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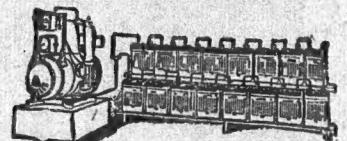
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The Farm and Ranch Editorial Page...

The dollar is too high for Canadian agriculture

WHEN we think of Canada as a whole, most of us get great satisfaction out of the progress we have made in the last decade. Certainly the over-all picture is one of magnificent accomplishments. We are building a great country with a great future. All this is made abundantly clear on the reading of the great speech by Hon. S. S. Garson, the minister of justice, which we ran last month.

Yet, when we get down into regional development we are bound to raise a question or two. The fiscal policies of the Liberal Government have achieved what they were designed to produce — a vast industrial expansion and the creation of thousands of new jobs, particularly in eastern Canada. No achievements on such a scale can be brought about without pain or dislocation. Unfortunately, it has been the West which suffered from too large a measure of both.

Prairie farmers are more prosperous today than ever before. But it is prosperity attributable more to the kindness of nature than to Government fiscal policy. Indeed, the government ought to recognize that many of its policies, adopted to further particular aims in the industrial east, have a heavy and unfair impact upon the producers of the West. Make no mistake about this: The Producers are extremely happy because we have a Canadian Wheat Board to market our wheat and coarse grains. But we are aware, as well, that all the gains achieved through the existence of the board can be swept away by Government fiscal policy. So let's enter some caveats in Mr. Garson's speech.

Economic activity is comparable to the flow of the tides. There are waves of high prosperity, troughs of depression, more high waves, more troughs. As a result of Government encouragement to export, eastern industry became over expanded after the war. It was facing a real falling off of markets at the time of the outbreak of war in Korea. That falling off was beginning to result in lay-offs. Eventually there would have been at least a slackening in demand for higher wages if not an actual reduction in wages.

At the same time, Agriculture was just catching up on the ground it lost during the war. Because of good crops and good markets, farm cash income was up, a buoyant factor in our economy. Thus the depression that was coming would have hit industry first and there would have been a substantial time-lag before it hit the farmers.

Korea changed that. It turned a glut of industrial products into scarcity. It resulted in heavy increases in taxes. It caused a wholesale drive for higher wages. It took up the slack in eastern factories with war orders. Instead of the farmers' costs coming down, they continued to rise. The fiscal

policies adopted by the Government resulted, at the same time, in a substantial cut in the farmer's income.

Let's take the exchange rate as a single example. For some years the Government held this steady at around 10 per cent premium on American funds. Our wheat was sold in the world market for American funds. This helped to make up a part of the loss taken by producers on sales of wheat domestically. The rise of the Canadian dollar to par and then to a substantial premium meant a 15 per cent reduction in the price realized by the farmers. In short, while Korea resulted in a rise in wages and costs of the things the farmers buy, it also caused the farmers to take a 15 per cent cut in their cash income.

True, our farmers may not realize clearly what is happening because their initial price from the Wheat Board remains about the same. But eventually when the pools are wound up, they will get much less than they would have in pool dividends.

Silly arguments from a dream world

BECAUSE, on principle, we never shoot domestic fowl, we have not paid much attention to the Major H. G. L. Strange's Grain Exchange house organ. We've never fancied sitting ducks or clucking hens as attractive targets. But we have always had an abiding interest in the bizarre and the outlandish. So we cannot resist the impulse to comment on a couple of recent Strange bulletins because in our judgment the arguments presented are the stupidest ever made for the futures market system.

Maj. Strange lives entirely in the past. Nothing is as good today as it was 25 years ago! The way our world should function is the way it functioned in the 1920's! The way to sell wheat is to go back to the Roaring Twenties, get back to the open futures market! They really knew how to sell wheat in those days!

He is proud of the fact that in 1928-29 Canada sold more wheat for export than it did last year. This he attributes to the existence of the open futures market without subsidies or supports of any kind and without any aid from Marshall Plan dollars. The inference is that all we have to do to sell more wheat is get the United States to abolish its agricultural support programme, fire the Wheat Board, re-open the futures market in Winnipeg and Liverpool and get out of the way of the private grain trade.

In the first place, let's just clear up the record. The big sales made in 1928-29 were

In a notable editorial in a recent issue of Saturday Night, B. K. Sandwell very cogently stated the case for reducing the premium on the Canadian dollar. Its current level helps to keep down the cost of living of eastern workers. But the price exacted for this small gain from the rest of the country is too high. It will take \$50,000,000 out of the wheat farmers' pockets on this year's crop alone. Mr. Sandwell suggests that the dollar can be brought back to par or below by central banking operation. The Bank of Canada could buy short term U.S. Government bonds until the price was forced back. It could then sell the bonds and make a profit on the deal.

Whether this is a practical solution or not we do not know. But we do know that the Canadian Dollar is priced too high for Canadian agriculture. Unless it is brought down, then we are going to be in for the first licks of the depression when it comes. Instead of hitting those who have made the greatest gains first — eastern industrial and factory workers — the depression will hit hard at agriculture while wages still rise in the east.

It seems to us that Mr. Garson and his colleagues ought to be making much more of an effort to correlate the interests of agriculture to those of the industrial east in their working out of fiscal policy. Perhaps that is already being done. Perhaps the Government not only knows the score but is preparing to take appropriate action. If it isn't, then we in the West are in for trouble. And if our usual luck holds, that trouble should arrive just when nature decides we have had enough good years for a while and sends us a siege of drought.

not attributable solely to the open futures market. The Prairie Wheat Pools, which came into being because of the lack of confidence of the producers in the Monte Carlo system of grain handling, had established central selling agencies in Europe. They vigorously pushed the sale of our wheat and did a large share of the business.

And let's take a look at 1928-29. It was the biggest boom year the world had ever seen. Britain, our best customer, imposed no restrictions on the entry of our wheat. The countries of Europe could still afford to buy our wheat with their own money. Hitler had not yet appeared on the world stage. There was no world-wide famine of American dollars. The most costly war in history had not taken millions of lives and destroyed billions of dollars worth of property. The year 1928-29 is no more comparable to 1951-52 than whipped cream is comparable with vinegar pickles. The former are both crop years, the latter are both edible. That is all they have in common.

Any system would have moved grain in 1928-29. The test of a system of any kind is how it operates when the going is tough. We raised good crops in this country after 1929. For the years 1929 to 1932 inclusive, we raised slightly under 400,000,000 bushels a year. How did this wonderful open futures market function in those days? Ask any Prairie farmer who lived through them.

(Continued on page 6)

Farm and Ranch Editorials

Let our new neighbors get settled before we erupt

BY the time this issue of the Farm and Ranch reaches our readers, the American people will have elected a new president. Either Eisenhower or Stevenson will be a man of sterling character. Both candidates are fully aware of the problems that beset the world, both have committed themselves time and again to the carrying on of the policy of solidifying the unity of the anti-Communist nations.

From the viewpoint of world peace, the course of American statecraft has been set. There will be no return to the isolation that was part of American policy prior to Pearl Harbor. So the conscious and positive impact of the United States upon world affairs will be good. Unfortunately, because of the importance of the place held by the United States in world affairs, there is no way of guarding what its unconscious impact may be.

The United States is by far the biggest fish in the pool of world economy. As conscious guardian of the pool, its influence will be benign. But when it becomes concerned with itself, it may thrash around; with highly disturbing results to the little fish. Its domestic policies, in short, like the

(Continued from page 5)

It got the average price down to 49 cents a bushel in 1930 and to below 40 cents in the next two years. In the three years after 1929 it managed to find customers for only half the crops we grew.

It must be wonderful to live in the kind of dream world occupied by Maj. Strange. The most important events in world history can be ignored. The barrier that have been erected against the sale of our wheat are every bit as real as the blockade of the Atlantic was in wartime. We can give our wheat away, or we can sell it provided our customers can find some means of obtaining the dollars with which to pay for it. That means has been provided by the taxpayers of the United States in the form of Marshall Aid dollars.

But wheat is not all these dollars are spent for. Our customers must ration these dollars, apportion them between food and other commodities. To get them to spend substantial parts of those gift dollars on wheat was one of the accomplishments of the Canadian Wheat Board and the Canadian Government.

Instead of harping on 1928-29, we suggest that the Major turn his attention to the next half decade. Instead of drooling over the wonderful prices obtained in 1928-29, for the big sales that were made, let him start explaining why the futures market couldn't even find customers for our wheat at the lowest prices recorded in 300 years. That should occupy his time until the next crop is off. At least it will stop him from being made the laughing stock of his customers who having lived through 1930 to 1939, know all about the way a futures market operates.

colic in a whale, may be felt far outside its body.

It is a curious thing about American politics that the people never know what sort of president they are going to get until after they have elected him. By every yardstick by which an electorate can judge, Herbert Hoover should have been a magnificent president. The marks of greatness were on him in many places. Yet the times were against him and even today his name is still linked with breadlines. Roosevelt, in his first campaign, capitalized on the final revolt against prohibition. His speeches, when he turned to economics, were couched in the most conservative terms. He was a staunch advocate of balanced budgets, until he won the election. Thus there is not too much point for outsiders trying to guess the direction the American internal economy will take during the next four years.

It seems to us, however, that there are bound to be dislocations. Washington, in the last decade, has become the capital of the world. To it there was a constant trek of government leaders and their top officials with problems to be discussed. The men who worked at the policy-making level for the United States government were familiar with the myriads of special problems which beset that country's friends and allies. When difficulties arose between Canada and the United States, the solutions were often quickly found by a phone call or a short visit to Washington.

Regardless of the winner, there will be profound changes in Washington in the next few months. An Eisenhower victory would result in a complete replacement of the top policy makers and many of their assistants. The changes will be almost as great under Stevenson for, despite election time unity, he had little stomach for the Truman administration. These changes are bound, in the beginning at least, to muddy the water of Canadian-American relations. They could, for example, cause a postponement in the re-opening of the American market to Canadian livestock. In the confusion that will engulf Washington after the election, this is not the sort of question that will get much attention.

There will undoubtedly be an end to the sort of influence peddling and corruption that characterized the last part of the Truman administration. But influence will still be exerted, in different ways, by different people, for different ends. Eventually, the government will shake down into a practical, functioning system. But it will take time. For Canadians, the next months will be ones in which patience and restraint will be needed. Our relations with our powerful neighbor will be changing direction. Indeed, we'll have a brand new neighbor next door; a neighbor we will have to get to know before we can understand him. One way of retarding the development of true neighborliness is to be over-critical in the beginning. Let's expect them to make a

number of false starts and strange noises before they get settled down. Let's not read too much into these changes until we're certain they are permanent, and we'll save a lot of wear and tear on our blood pressure.

★

Ah, Cheddar! Oh, Gorgonzola!

THE dairy farmers, both here and in the United States, are working hard to sell the consuming public more cheese. We wish them well, though we have a suspicion that they are laboring in a lost cause. The sad truth is that cheese, one of the finest foods ever devised by man, is a victim of the merchandising and chemical revolution. To wit: the chain stores and cellophane.

Canadians are definitely not a nation of cheese-eaters, and we are getting less so every year. A taste for cheese is something that is acquired. It comes from cheese added to school lunch boxes, or snacks for nibbling on. It comes from a habit acquired early in life. It comes from an awakening spirit of adventure with food, the urge to try something that is new, to cultivate a liking for the unfamiliar.

At the moment, it is sad to report, the best efforts of everybody concerned with cadging a profit on cheese is the negation of all this. The cheese that is foisted upon us today would make old-fashioned cheese lovers retch. If there is anything as insipid, tasteless, anemic and as thoroughly revolting as the stuff peddled as cheese today it has escaped our attention. It is wrapped in cellophane because, we suspect, it cannot stand exposure to the open air for even a few minutes. It has been so processed that it is completely tasteless, and is sold to people who shouldn't be allowed in stores without a guardian.

True, real cheese is still available, if you have the persistent love of the stuff that drives you to search it out. But in this hurried world, who can devote the time that is required to find it? Is the farmer from Claresholm going to take a day off to drive to Calgary to acquire a couple of pounds of good old Canadian cheddar? Or is he going to eat the stuff his wife brings home in cellophane? Of course he'll eat it, but he won't like it and gradually his wife will stop buying even that.

Perhaps that is the answer to the cheese problem. Perhaps we should all stop eating this ghastly stuff. The big mass production outfits would be driven out of the cheese business. So would the chain stores. Then, because there will always be an underground of real cheese lovers, perhaps the old-time cheese makers will sneak back into business. Eventually, who knows but what real cheese will again make its appearance on grocers' counters. It won't be wrapped in cellophane. It won't be pasteurized, homogenized or the subject of gawdy advertising campaigns. It will just be plain cheese, wrapped in cheese cloth, equipped with a wire and handle for cutting off a slice.

Then the people whose tastes have been seduced by the chain store-cellophane combination will be forced to buy something else. By then they will be able to eat the cellophane and never know the difference.

Stalin is counting on war between capitalist nations

By BEN MALKIN

AS a new President prepares to take office in the United States, the Western world finds itself facing fresh issues and new questions, to which the new U.S. government will have to provide many of the answers. There has been a great deal of talk in recent weeks about a shift in Russian policy which will create new difficulties for the West. There seems no reason to believe that a shift isn't coming. It is logical that it should, and it could give considerable worry to the West.

Several weeks ago, Prime Minister Stalin of Russia hinted at the new line. In an article in the magazine, "Bolshevik", he said there was no chance of war being waged against Russia by the "capitalist" world, but that war between the capitalist countries themselves was inevitable. In the West, a good many people laughed at him. They said it was ridiculous that the capitalist countries should make war among themselves.

Yet is Stalin so crazy after all? First, when he talks about the "capitalist" countries, he includes nations like Germany and Japan, as well as the U.S., Britain and France. Although Germany and Japan are for the moment democracies, there is no guarantee they will not again be ruled by political dictatorships and economic cartels in the future as they were in the past.

There is no guarantee that, if markets and sources of raw materials were closed to them in the future, they would not try to gain these by force, as they have tried in the past. Secondly, it must be remembered that thus far in modern history, wars have been fought not against the Soviet Union, but between "capitalist" countries.

This is an objective fact, and it has to be faced. Fortunately, there is ample awareness in places like Washington, London and Ottawa that what Stalin said has to be taken seriously. Almost immediately after Stalin's article appeared, Anthony Eden, the British foreign minister, said that the Western world would have to see to it that it does not become split into quarrelling factions.

Time for Vision

Since 1948, when the Communists won Czechoslovakia, countries of the Western world have been uniting out of fear of Russian aggression. But should this fear subside, should everyone become convinced that Russia no longer plans aggression, will the stimulus to unity remain? It's a hard question to answer. The answer depends on how much vision and selflessness Western statesmen show.

In Ottawa, experts in foreign affairs think these steps would have to be taken if a sort of "cold peace" were to break out, and the West stood in danger of disunity and even war within its own ranks because Russia had removed its aggressive threat: an expanding world market for goods would have to be sought. This would require not only continuous removal of tariff barriers, but streamlining of customs regulations, especially in countries like the U.S. and Canada.

Investment Aids

Just as important, a continuing program of capital investment, both public and private, would have to be encouraged, especially in economically under-developed countries like India. Nothing creates markets, and develops new sources of raw materials, like large-scale capital investment does. A freer flow of trade and immigration than we have had since the war, to take care of surplus goods and population, is needed.

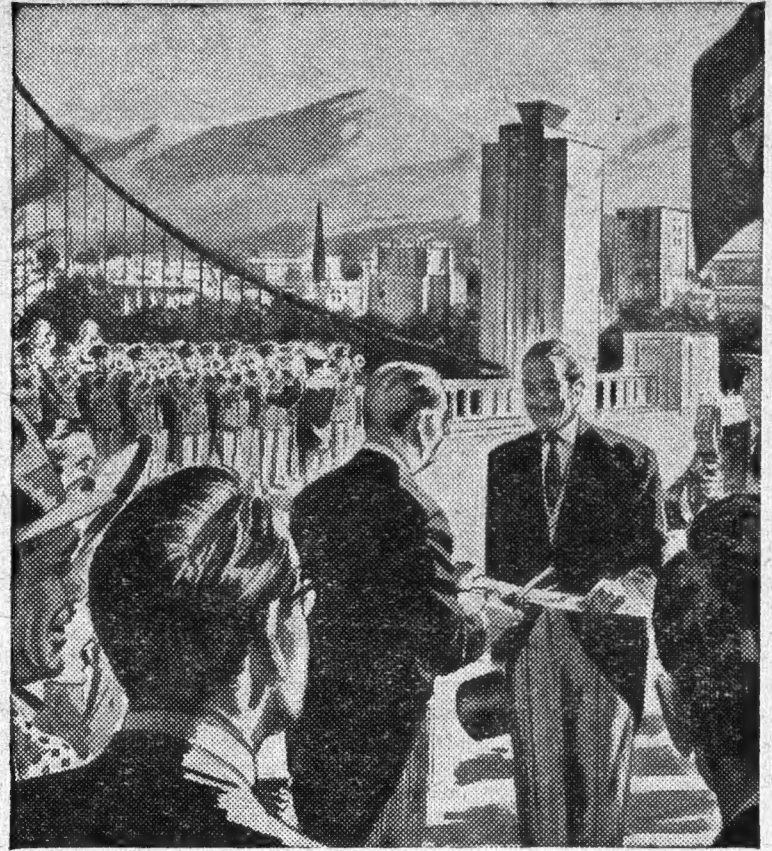
Will these steps be taken? Only the history of the next two or three years can tell. The new U.S. government will have to give a lead. It guides the policies of the greatest industrial country in the world. Its example will be followed by other countries. The new government has just as heavy a burden in maintaining peace, even if the Russians do drop their aggressive policies, as the Truman government did in the face of Russian threats.

Canadian Quiz

By GEOFFREY SHAWCROSS

1. Which is our best-known and biggest butterfly?
2. What is there unique about it?
3. Where does it lay its eggs?
4. Which insect prefers to visit flowers in the early evening?
5. Which plant gives some people hay fever?
6. What percentage of our crops are destroyed by insects?
7. Who founded the National Gallery of Canada in Ottawa and when?
8. Who started the Women's Institutes?
9. Where is an avenue of trees planted to her memory?
10. What distinguished Canadian lawyer died, fairly recently, in his nineties?
11. On what important international tribunal was he a member?

(Answers on page 30)



Maybe you should cut this ribbon!

Of course, when a new bridge or highway is completed, it's traditional for some prominent citizen or government official to cut the ribbon in the opening ceremony. And yet...

Often this honour might be awarded with good reason to any one of the nation's *life insurance policyholders*.

Why should *they* deserve this distinction?

Because it is *their* premium money, part of which is invested for them by life insurance companies, which makes it possible to build many such useful public works. Not only roads and bridges, but electrical power stations, waterworks, stores, homes, office buildings and industrial plants are built with the help of life insurance dollars.

So here's to the life insurance policyholders! While they provide financial security for their families and themselves, they also help make Canada a better land to live in!



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A trained life underwriter — representing one of the more than 50 Canadian, British and United States life insurance companies in Canada — will gladly help you plan for your family's security and your own needs in later years. Rely on him!

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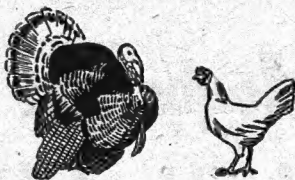


GOOD NUTRITION
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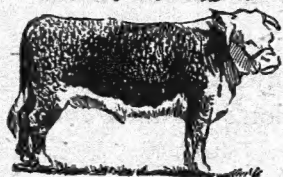
SOIL...

Soil fertility is a large factor in determining feed quality. A good nutrition program, therefore, is based on good land use... employing fertilizers, crop rotation and conservation methods. When your soil is deficient in certain minerals, your crops also lack them. This in turn means you use more supplements with your home-grown feeds if you are to achieve high production.

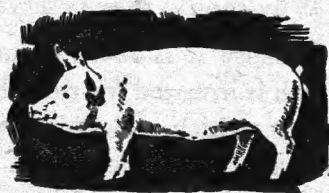
Today's hens are bred to lay over 200 eggs annually; turkeys to reach market weight 2 to 3 weeks earlier. High quality, balanced rations are needed to realize these potentialities.



Due to modern feeding methods, 15,000 lbs. of milk a year per cow is becoming common; as is a 2.5 lb. gain per day for steers. Although steers and cows are basically rough-age converters, high quality supplements need to be added to their diet, if your herd is to meet these high production standards.



Litters of 10, weighing 40 lbs. each when weaned, and 200 lbs. at less than six months, are the aim of most hog feeders. Such records result from good breeding, feeding and management.



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booklet on nutrition
from your local
manager.

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The Canadian Bank of Commerce

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BRIER**
Canada's Standard Smoke

Here are Alberta's Master Farm Family Awards

WINNERS of the Master Farm Family Awards for 1952 were announced recently by Hon. David Ure, minister of agriculture. This is the fourth year of the Alberta Master Farm Family program.

These are Alberta's Master Farm Families for this year:

E. R. Lewis Family,
Stony Plain.

John Skrypitsky Family,
Mundare.

John Lambert Family,
Manning.

J. H. Schmaltz Family,
Beiseker.

Jesse Cole Family,
Clive.

Each family receives an award of \$1,000, an engraved plaque and a name plate for the farm entrance.

The main objective of the Master Farm Family Program is to provide Alberta farmers with a practical demonstration of how a family can achieve success in farming and living with each other and their community. The program is intended to emphasize the advantages of the farming vocation and the dignity and satisfaction of farm life. Through the program, farm youth gain a clear understanding of the high ideals of agriculture and learn of the opportunities offered them in agriculture.

Interest in the program continued keen this year with 32 families being nominated for the awards, approximately the same number of nominations as last year.

Candidates must be Canadian citizens who have operated a farm, either an owner or lessee for 20 consecutive years. At least three neighbors must nominate a family and the family must agree to accept the honor of nomination.

Winners are selected on a regional basis and a provincial committee confirms the selections. Each regional committee is made up of a working farmer, a technical agriculturist, a home economist, a housewife, and a representative of the Experimental Farms. Each region corresponds roughly to one of the five Alberta soil zones.

A total of 87 factors related to the farm operation, farm life, community work and business management are evaluated in each case and points given for each factor. For each of the factors there is a possible score and the candidate's score is measured against this.

Cole Master Farm Family

Diversified farming and a deep interest in the soil has led to the success of the Jesse F. Cole Master Farm Family of Clive.

"Greencove Grain and Stock Farm, J. F. Cole and Sons," reads the attractive sign at the entrance of the farm. This is a simple acknowledgment that the father is sharing his success with his sons, Gerald, Ronald and Allan, and that the farm's operation is a family affair.

Mr. Cole was born at Creston, Washington, and moved to Alberta when his father took up a section of land at Brownfield, near Coronation.

After Grade 11 schooling and a course at the Olds School of Agriculture, Mr. Cole helped his father until 1922 when he bought the farm from his father. Seven years ago he bought another section of land situated close to the town of Clive and began operating it as the Greencove Farm, named after a pleasant Florida cove which recalls a happy holiday of years past. Gerald, at 22, the oldest boy in the family, now operates the Brownfield farm between his agricultural studies at the University of Alberta.

A well-planned farm program puts the farm on a sound basis. This program is based on a six-year rotation; the first year, the land is broken, the second and third years, planted in grain, the fourth and fifth years in hay, and the sixth year used as pasture. Since his section of land is broken up into 12 approximately equal parts, the Coles know what their lands will be producing at any given year.

Since their ambition is centered around a registered herd of Herefords which the boys will perpetuate, Greencove Farm has been carefully planned to suit the needs of cattle. There is permanent pasture and a centrally located waterhole which touches all fields and is surrounded by natural wooded slopes which provide splendid shelter for the animals.

Farm hay, cattle, hogs, barley, oats and wheat are produced on the farm — a diversity which emphasizes further the careful planning and thought which goes into the operation of the Greencove farm. Any of these crops can be increased at any time to meet a change in markets or a changed feeding program.

When the Coles bought the Clive farm seven years ago, it was badly run-down and polluted with weeds after many years of straight grain production. Steady crops of grain without any rotation program had brought the soil near exhaustion and Mr. Cole set to work to increase the fertility of the soil.

Extensive seeding to grass and legumes was his main remedy for the ailing soil. A firm believer in the use of grass and legumes, Mr. Cole keeps 25 per cent of his farm planted in this way. His wheat, barley and oat yields have been steadily increasing due to his program.

Meanwhile, his grass and hay crops, usually the choice for most farmers faced with a piece of land that seems useless, have proved to be his biggest paying crop.

Schmaltz Master Farm Family

A restful oasis of trees on the rolling prairie land south-east of Beiseker marks the home of the J. H. Schmaltz Family, southern Alberta's Master Farm Family for 1952.

The sheltering trees which enclose the farmstead and line the fields are more than an identifying landmark; the spruce, poplar, green ash and

other trees are testimony to the determination and vision of the man who planted the first of them 33 years ago on the bare stubble of a prairie farm.

J. H. (Joe) Schmaltz is a man who makes things grow — crops and his community as well as trees. His success with tree planting has been repeated with his achievements in agriculture and home service.

He was born in 1893 in North Dakota and moved to Alberta with his parents at the age of 13. One of a family of nine boys and one girl, he lived on a farm three and half miles north of his present home.

Young Joe Schmaltz soon saw the value of applying business training to the successful operation of a farm and attended business college at Calgary in 1911 and again in 1917. During the First Great War, his father's working ability became impaired by rheumatism and his son left business college to assist on the farm.

After working on a share basis with his father for a year, Mr. Schmaltz married in February, 1919, and settled on the farm he and his sons work today. His father sold him one-quarter section and gave him another quarter and on this first half-section he founded his farm.

In February and March of that first year, he drilled a well and built the first two rooms of his present home. His first barn was a flat-roofed shack and at the beginning there was only a fence to mark off his land. However that first year, he planted his first trees — some poplars — and began the long-term tree planting program which would make his farm a beauty spot in an area not distinguished for its shelterbelts.

In 1923, he planted 2,425 trees around the farm and in 1924 another 2,450 south of his home. More trees from the Dominion Forest Nursery at Indian Head, Sask., were planted in the fields in 1927, 1928, 1930 and 1932. In 1945 more spruce were planted and last year he planted three-quarters of a mile of trees along the road which passes his farm. Next year, he plans to start a mile-long shelterbelt along the northern fringe of the Calgary-Drumheller highway as well as 50 apple and plum trees.

Another feature which enhances the appearance of the Schmaltz farm are the attractive and solidly built farm buildings, in good condition and all painted in a conservative but smart red except the poultryhouse which is white.

Lewis Master Farm Family

The largest seed potato crops in the Province of Alberta are harvested on the farm of E. R. Lewis, head of the Winterburn district's Master Farm Family for 1952.

Mr. Lewis has been growing certified seed potatoes on his "Green Acres Farm" since he purchased it in 1932. His determination and his love of the land, combined with both the theory and practical experience of good farming, has won Mr. Lewis an enviable reputation as one of the top potato farmers in the Province.

"Green Acres Farm", a half section of rolling green fields, is situated about a half mile south of Winterburn, 5 miles west of Edmonton, on the Jasper Highway. It presents a handsome appearance from the roadway, with a wide slightly curved drive leading up to the house, a wind-break of poplars to the north and a well-planned farmyard with modern, convenient buildings.

Mr. Lewis was born in Calgary 49 years ago, where he grew up with a keen interest in the land. Between school years and University terms, he spent his time learning the practical side of farming, and after graduating

from the University of Alberta with a B.Sc. in Agriculture, set his cap for a farm of his own. This he accomplished in 1932, moving with his pretty wife, whom he married in Calgary in 1929, and his infant son, to the present farmstead site.

The story of their farming success is the story of the whole Lewis family, including Jack who is now 20 years old, 18-year-old Beth and 10-year-old Carol. They are a family who enjoy their farm, enjoy the business of keeping it running smoothly and efficiently, and enjoy the company of each other. Mr. Lewis is a man with a twinkle in his eye and a ready wit and humour which is fully appreciated by all the family. Fun and harmony is the keynote for living on the Lewis "Green Acres Farm."

Jack and Mr. Lewis attend to the outdoor work on the farm. They specialize in growing certified seed potatoes and alfalfa hay. Their cropping program, interchanging potatoes and hay on each piece of land, maintains the fertility and physical condition of the soil. Every device for reducing labor is used, especially in planting, cultivating, harvesting and sorting potatoes. A potato combine is employed for harvesting operations. Yields average 150 sacks to the acre. All the family agrees, a potato farmer is luckier than most, because he's not quite so dependent on the weather as the grain grower. A little rain doesn't halt operations on the Lewis farm.

Other equipment on the farm includes tractors of varying sizes, a 6-foot tiller, a 4-furrow plow, and different size cultivators. Transportation is provided by a one-ton truck and a car.

The Lewises have the help of a hired man and up to 12 extra workers for their harvesting operations. They take off two crops of hay every year, grow a small crop of registered seed barley which averages 50 to 70 bushels per acre, keep a herd of 15 purebred Shorthorns, a purebred bull and 10 grade cattle. Mr. Lewis is planning a herd of 25 purebred cows for the future. At present, he has his own beef supplies, butter and milk, and he keeps feeder hogs for pork.

Skrypitsky Master Farm Family

In 1921, 11-year-old Mary Bilyk left the Ukraine with her parents, bound for Canada and opportunity. With her, Mary carried a dream of a fine house to live in. Thirty years later, that dream came true, when the John Skrypitskys moved into the modern new home on their farm in the Royal Park district.


Mary Bilyk married John Skrypitsky in 1929, and moved with him to a two-room house on their present farm. This was home to the Skrypitskys until 1949, when they began the excavation for their beautiful new house. The intervening years were filled with raising three girls and two boys, expanding a quarter section of land to a full section, improving crop yields, building a new barn, piggery, garage and machine shop.

They were long, hard years of struggle for the Skrypitsky family, but their rewards were happiness and accomplishment, and in 1952 a Master Farm Family Award.


John Skrypitsky was born in 1901 in the Beaver Lake district. Though he was able to obtain only a grade three education, his lack of schooling did not prevent him from learning the best ways to run a farm, how to keep books and administer his property to the best advantage. He acquired the farm in 1929, with a down payment of \$1,000, which he borrowed from his brother-in-law. Besides the quarter section he had a two-room house, a

(Continued on page 10)

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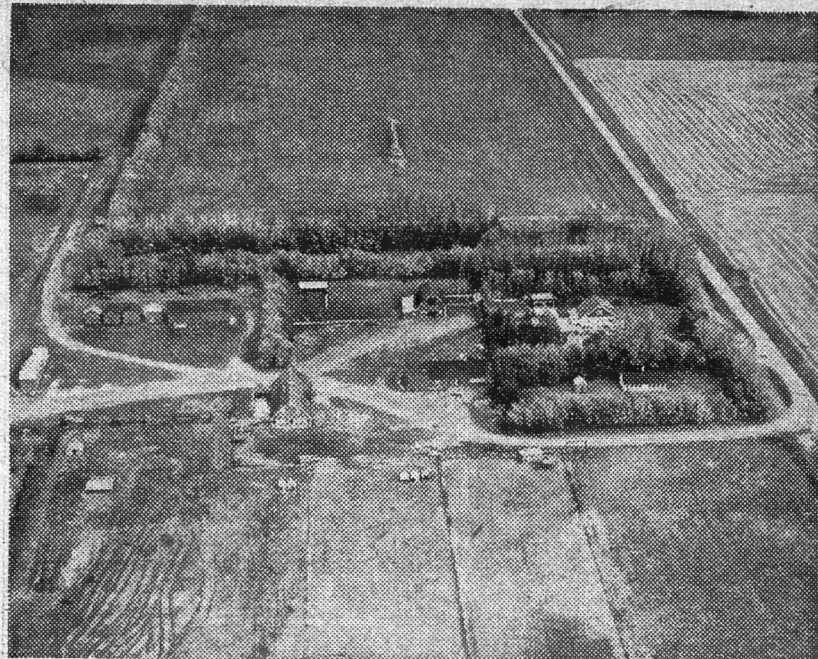


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Master Farmer's Home



An aerial view of the Schmalz farm showing the extent of the shelterbelts which protect farmstead and fields. Directly south of the house is the poultry house. The long, low building on its left is the building in which the farm machinery is stored and repaired. To the left of it is the pig barn, while the other building is the cattle barn.

(Continued from page 9)

partially finished barn, three cows, a light delivery truck and a \$6,000 debt. From that time to this, John Skrypitsky and his family have worked and planned as a team, until now, they have a well-planned farmstead of handsome new buildings, a new home, a 1951 car and late model farm equipment.

In the early days of the farm, Mr. Skrypitsky was away working rented land from before dawn till after dusk. His wife was up at four to prepare all his meals for the day; she milked 12 cows by herself, fed the chickens and tended the children. She baked bread, sewed all the children's clothes, separated the cream and did all the household and farmstead chores. From the beginning the Skrypitskys have worked together, first as a partnership, and as the children grew, as a well co-ordinated team.

The Skrypitskys have five children. The eldest is Vicky, 22, now married and living in Edmonton, while Walter, who is 20, works with his father on the farm. Both Vicky and Walter are graduates of the Vermilion School of Agriculture, and Vicky is also a stenographer in the Public Trustee's Office in Edmonton. Zonia, 17; Archie, 16, and Mary-Jane, six, are all attending school at Mundare. After school and on week-ends they lend a helping hand with the work to be done on the farm. Archie is in grade 11, and plans an agricultural course at Vermilion after graduation.

As mixed farmers, the Skrypitsky family has a great many projects always on the go. They grow Thatcher wheat, Victory oats and registered barley. Part of the crop is sold in the area as commercial seed. 1951 yields were 96 bushels of oats to the acre, 43 bushels of wheat and 66 of barley. These increasing yields are positive proof of the improvement of the Skrypitsky farm over the past 23 years. In 1929 the land was overrun with weeds, produced a poor yield, and required constant attention on the part of Mr. Skrypitsky. By taking off five or six crops of different grains, then either seeding the field to grass or leaving it to summerfallow, by use of Noble blade and discer and with chemical sprays, the Skrypitskys have eliminated the weeds and returned the fertility to the soil.

Lambert Master Farm Family

John D. Lambert, head of the 1952 Master Farm Family for the Peace River District, is an outstanding example of a pioneer who helped to develop Alberta's northern agricultural frontier.

From a tiny homestead gouged from the wilderness in 1931, the Lambert family has built up a modern farm in the Manning district through proper cropping practices, co-operation with the other pioneers in the district, and their genuine love for the northern area.

Mr. and Mrs. Lambert first met in the Oyen district, where Mr. Lambert had moved from his father's home in Austen, Manitoba. He came to the dry area of Alberta in 1927 and remained there as a farm hand until 1931. At that time, the Special Areas had been set up, and the Alberta government, in its attempt to depopulate the district, offered to pay the freighting costs for anyone who wished to move to a new farm within Alberta.

A friend had already taken a homestead near the present town of Manning and Mr. Lambert joined him on the northern trip. Equipped with horses, sleigh and meagre equipment, the pair set out in mid-winter from the end of the steel at Grimshaw. Mr. Lambert also had with him a purebred Shorthorn bull and a purebred Yorkshire sow which he had taken in wages.

After an arduous three-day trip across the unsettled country, the pair arrived at their homesteads. They set to work to build a log barn for the stock and made a dugout dwelling for themselves in the side of a creek bank. During the first winter they killed moose for food and prepared to clear the land for their spring crops.

Spring gave them relief from the bitterly cold weather and deep snows, but also brought swarms of mosquitoes and blackflies from the surrounding swamps to torment the homesteaders. Mr. Lambert recalled that at times it was difficult to see what he was doing because of the clouds of insects.

All around them were the wild swamps where the horses grazed on wild grasses and died. Mr. Lambert built himself an 18-by-24-foot log house which is still standing on the farm today, and sowed only about

Farm Cash Income

LOWER livestock prices and lighter livestock deliveries, together with smaller Wheat Board payments have resulted in Canada's farm cash income in the first six months of this year being slightly below that of the same period last year. The bureau of statistics estimates farm cash income from the sale of farm products in the January to June period at \$1,226,719,000, a decline of 2 per cent from the \$1,251,909,000 received in the same period a year ago.

The table below shows farm cash income in the prairie provinces and Canada during the first six months of this year.

	Man.	Sask	Alta.	Canada
		— thousand dollars —		
Wheat	14,899	141,287	70,608	230,556
Wheat, C.W.B. payments	6,929	30,066	13,316	50,311
Oats	3,830	14,823	10,668	34,422
Barley	9,146	18,965	17,555	46,603
Barley, C.W.B. payments	5,072	3,609	4,919	13,600
Rye	338	4,841	2,487	7,666
Flax	1,105	932	655	2,717
Corn	48			6,484
Clover and grass seed		115		115
Hay and Clover	47	9	89	773
Total	41,414	214,647	120,297	393,247
Potatoes	620	238	575	33,646
Vegetables	367	146	349	9,242
Sugar beets	633		1,193	4,813
Tobacco				54,487
Total	1,620	384	2,117	100,188
Cattle and calves	14,753	15,531	85,018	179,710
Sheep and lambs	84	120	1,575	3,053
Hogs	9,307	11,573	29,733	180,436
Poultry	2,361	1,840	746	45,449
Total	26,505	29,064	67,072	408,648
Dairy products	9,593	10,335	14,704	177,571
Fruits				8,274
Eggs	2,876	2,988	4,205	52,117
Wool	90	183	669	2,429
Honey	71	48	54	1,459
Maple products				8,232
Miscellaneous farm products	1,233	3,865	3,137	22,234
Forest products	200	191	97	43,748
Fur farming	1,907	613	1,704	8,572
Cash income from farm products	85,509	262,318	214,056	1,226,719
Supplementary payments*	143	1,442	839	2,436
Total cash income	85,652	263,760	214,895	1,229,155

* Prairie Farm Assistance payments

Soak evergreens before winter

"This is one fall you want to be doubly sure you give your ornamental evergreens a good soaking before winter," says Harry A. Graves, NDAC Extension Service horticulturist. "Unless we receive good fall rains before freeze-up, ever-

nine acres for his first crop, using his purebred bull to break and plow. It was poor grain that Mr. Lambert first harvested because of the grey wooded soil. Then the homesteaders had to wait until the snow was on the ground before they could make the three-day trip by sleigh to the elevator at Grimshaw.

That was 21 years ago. Today the Lamberts farm a section and a quarter of land and are less than 5½ miles from the nearest town of Manning. They still have to haul their grain to Grimshaw, but now the modern Mackenzie Highway cuts the time to a few hours for the round trip.

Besides Mr. and Mrs. Lambert, there are six members in the family. The oldest child is Helen who is 17 years of age and is taking her second year at Fairview School of Agriculture and Home Economics. Charlie, who is 15, is in grade eight at school and is invaluable on the Lambert farm. Thelma, 14, is attending the school for the deaf in Saskatchewan; Dorothy, 12, is in grade seven; Gail, 10, is in grade five; and Ivan, the youngest of the Lamberts, is six years old and has just started school.

greens are very likely to suffer for want of water before spring."

Evergreen needles are really small leaves, Graves explains. Since needles are carried on evergreen trees the year around, they give off moisture all winter long. As a consequence evergreen trees growing in dry soil have no source of replacement water and dry out. Severe injury to the trees may result.

"Thorough watering is important. Where water under pressure is available, let the hose run slowly near the base of smaller ornamentals for several hours. Be as sure as you can that the area occupied by feeding roots of the tree is thoroughly soaked.

"With larger evergreens such as spruces and pines, let the water run under the tips of the branches and outward. This will reach a large percentage of the feeding roots of these larger trees."

Where water has to be carried in pails, several large pails of water should be poured around the base of the smaller evergreens, Graves suggests. A small, circular earthen dam around these smaller evergreens will create a basin and result in the water soaking down rather than running away.

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The Jesse Cole Master Farm Family on the steps of their home. Left to right (front row) are: Mr. Cole; Margaret, 7, and Mrs. Cole. The sons are Allen, 14 (left) and Ronald, 18. Another son, Gerald, a 22-year-old agricultural student at the University of Alberta, was absent when the photo was taken.

Handwriting breaks down into four main categories

By DAVID MEYER

IN this article we shall take up the most telling single handwriting feature for the assessment of character. This graphological trait is known as the "form of connection" and consists of the lines and curves that bind one letter to another.

There are four basic letter connections, and they are known as the garland, the arcade, the angle and the thread.

mildness. Garland writers are natural, tolerant, ready to recognize others, sympathetic. Used by a woman, it betokens womanliness. Used by a man, it suggests a touch of the feminine virtues — and weaknesses. And the weaknesses of garland writers include dependency, indeterminateness, weakness of will, sentimentality, fickleness.

uuu tell - garland
mmm marna - arcade
nnn marna - angle
ooo name - thread

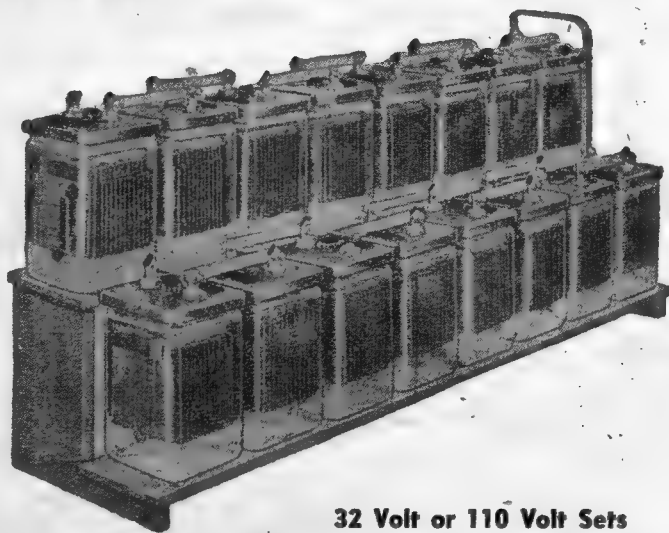
I touched upon the garland connection in a previous article. The name derives from the shape of a garland of flowers. Now, rarely does a writer use one form exclusively. It would make him too one-sided in character. These terms are applied to writers on the basis of general predominance of one form of connection or another.

The garland indicates confidence, goodness, frankness, sincerity, elasticity, warmth and

Garland writers are sociable and need to be in contact with others. Loneliness is unbearable to them. Women who use the garland make good wives and mothers and are devoted to their families. They are naturally musical and enjoy cooking, needlework, housework.

The garland as used by men indicates social ease. Practiced businessmen who want to proceed about their affairs without much friction write garland

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style. So do "trouble shooters" who make friends and influence people by their easy amiability and obliging manners.

The arcade derives its name from architecture. The shape resembles an arcade, a bridge, or enclosure. The term was coined by the Abbe Michon, a French cleric who laid the foundations for modern graphology. He noted several characteristics among the thousands of people who wrote to him using the arcade predominantly. He observed that regardless of their education, sex or station in society, these writers were conservative, reserved, traditional in thought and beliefs, well-mannered, touchy in their pride, rather aloof and formal.

It is not easy to get close to arcade writers. They lack the feeling of intimacy. They will smile and be gracious and hospitable, but you are likely to leave them with the memory of the smile and pleasant gesture and no more. You will feel that something is missing. And you will be quite right. The human touch is missing.

The aristocratic and royal families of Europe have been using the arcade. But don't let it go to your head if you are an arcade writer. The prosaic fact is that European aristocracy and royalty have been thrown out from one country after another ever since the great Napoleonic upsurge. Their conservatism and traditional manner of thinking blinded them to the social changes around them. They were rooted in the past and had no sense of the present. Their heads were full of Latin and Greek, ceremonies and proprieties and niceties, but they had no feeling for the real life around them. These are the people with closed minds.

Action Writing

Angle writers are the people of action, men or women. In men, the angle is a sure sign of manliness. In women, it indicates a strong dash of the masculine. Businesswomen and women of affairs will use the angle. These writers are energetic, purposeful, determined, responsible, steadfast. Work is as essential to them as the air they breathe. Given the work for which they are fitted, they are happy and spread good

cheer around them. But forced to work at occupations which are not suited to them, they become morose, irritable and difficult.

These writers are inclined to moral and ethical views of life. They despise the easy way out. They thrive on challenge and opposition. They are stout-hearted. I have a letter before me from a Manitoba farmer. He had suffered a spine injury in his youth which became worse over the years. He lost a leg, suffered from muscular atrophy in parts of his body, and wasted to a shadow of his former self. He had to give up farming. But he did not give up the struggle for life. He became a furniture maker and machinery builder.

President Truman uses the angle. In the 1948 elections, at least 90 per cent of the press was against him. Towards the end of the race, most of his closest advisers privately conceded victory to Dewey, but Truman continued fighting. The farmers of the Midwest who held the balance of power in the election swung it in his favor. They recognized one of their own and stuck by him. Dewey uses the thread and the angle. This combination makes him suave, smooth, slick. The farmers did not trust him.

The thread is the most subtle and intriguing of the writing styles. Writers of the thread are complex and puzzling. I mentioned the thread in a former article, in which I associated it with dishonesty. Well, the thread is used by confidence men and statesmen, forgers and diplomats, geniuses and crooks, explorers and hysterics, founders of enterprises and ladies of easy virtue.

Churchill and Secretary of State Acheson use the thread. Beethoven, Chopin and Tschai-kovsky wrote in this manner. How is one to separate the good and creative from the evil and ruthless and sick?

There is a method and it is called "style evaluation", in which the total graphological picture is taken into consideration for moral, ethical, cultural, intellectual and aptitude analysis. On the positive side, thread writers are resourceful and original and have the knack for making opportunities for themselves.



"A very valuable citizen"

When a bank manager was transferred recently a group of citizens wrote the bank in tribute to his sense of public service:

"During the time he was here, we found him to be a very valuable citizen. He always took a deep interest in our community, so we feel we have lost a valuable asset. However, we feel sure that his replacement will be made with a man of similar calibre."

A bank man, by the very nature of his work, becomes part of the life around him. During his training in various branches, and as he takes on growing responsibilities, he learns more and more about people and how his bank can help them. And he brings to his community his personal readiness to serve in any way he can.

This advertisement, based on an actual letter, is presented here by

THE BANKS SERVING
YOUR COMMUNITY



GOVERNMENT BUSINESS



QUESTION: What is your share of Alberta's Agricultural wealth?

ANSWER: Approximately ONE THOUSAND DOLLARS for each man, woman and child in the province.

AGRICULTURE, our basic industry, brought \$758,000,000 to the people in 1951.

That is why your government is so concerned about the proper use and care of the soil and the welfare of the farmers.

Outstanding achievements in the past few years, brought about by the Alberta Department of Agriculture include:

- A ten-fold expansion in the production of forage crops for fodder and seed.
- Assistance in the establishment of municipal seed cleaning plants.
- Determined rat extermination, coyote control and weed control programs.
- A tree planting program with annual plantings of 2,000,000 trees.
- Livestock assistance to farmers for the purchase of purebred bulls, now in excess of 5,500; placing of 2,608 boars, 519 rams, and distribution of 1,200 dairy heifer calves to junior dairy calf clubs.
- Assistance to feeder associations which to date have finished a total of 141,481 head of cattle and 407,502 sheep.
- Establishment of Dairy Cattle inspection, instruction and cow testing service to help increase the volume of fluid milk, raise the quality and direct attention to the economy of the industry.



AGRICULTURE EMPLOYS, IN SOME FORM,
ALMOST 75% OF OUR POPULATION

GOVERNMENT OF THE
PROVINCE OF ALBERTA

Buffalo bones, Indian pictures and a couple of good guys

By KERRY WOOD

OTHER farmers should be interested in the pair who've just driven out of my yard. They are sixtyish in age one a tall, lean man with keen blue eyes and the wind-weathered face of a stockman, his companion a short fellow with a merry twist to his mouth and a ready laugh. They'd both finished harvesting; now they were out to enjoy a little fun.

The light truck had a boat on it that one of them had built during some spare time. It was a safe little craft, though it weighed only 60 pounds and measured around 7 feet in length.

"We took a trip last summer after the spring work was done," the tall man said. "Not in this boat, but using another larger craft. We cruised down the river for a couple hundred miles. Had a wonderful time, too."

His companion nodded, adding:

"Mind you, there's part o' that trip I wouldn't want to take again, 'cause the stream was in flood and the foothill waters were fast and dangerous. But we were careful, and down in the slower part of the river we loafed along and caught some fish and had ourselves a grand holiday."

The tall man removed his cowboy hat and rubbed his scant hair, chuckling:

"We seem to take a lot of holidays, eh? Here we are again, enjoying ourselves."

He patted the boat, explaining that this time they wanted the craft for use on sloughs or small lakes. They had a couple of shotguns in the car, plus a tent and a grub-stake.

"We're supposed to be hunting for a goose," one of them said. "Oh, we don't much care if we don't bag any, but the goose-hunt gives us an excuse to get away from chores for a while and do a little camping out. We're going over to Goose-quill Lakes this afternoon. There's some pretty hills out that way; we'll sit around on top of one and watch the duck flights and keep an eye out for geese. If a flock flies over, we'll try to bag us a Sunday dinner. Otherwise—"

"The main thing is," his companion said. "We just want to have a good time."

A Happy Pair

They looked a happy pair, obviously old friends who'd gone on many an outing together. Both were keen observers. No doubt they had some strong opinions that differed from each other, to provide themselves with some stimulating arguments at times. But you could tell that they were cronies, with that relaxed and leisurely look about them of men enjoying a well-earned break from work.

They called on me to talk about a topic not connected with boating, fishing, or hunting. One of them had spotted the remains of stone chimneys on the banks of a river. He wondered if it might have been

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ENJOY OPEN ROADS, YARD, ALL WINTER!

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Tractor Make _____

Tractor Model _____

Year _____

Has Tractor rear hydraulic lift? _____

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DOMINION ROAD MACHINERY SALES
COMPANY LIMITED
P.O. BOX 237, WINNIPEG, MAN.



Kerry Wood's New Book

Here's a tip for Farm and Ranch readers who will soon be wrestling with their Christmas lists. Opposite the name of nature-loving friends or relatives just jot down the word "Sanctuary." That's the name of Mr. Wood's new book and it can be ordered direct from the author, Box 122, Red Deer, Alta. The price is \$1.50.

the winter camp of Anthony Henday, the first white man to visit this part of the west in the years 1754-55. Henday was on a trip for the Hudson's Bay Company, trying to coax western Indians to bring their furs to the shores of the Bay to trade with his company. So it wasn't likely that Henday, who travelled with and lived among the Indians during that journey, would build himself winter quarters that would leave such lasting relics as stone chimneys. However, the remains had been found, and the two farmers were hopeful that some authority would visit the spot to determine the historical worth of the old campsite.

Indian Cemetery

"There's an Indian graveyard not far away, too—a great heap of stones, eight or ten feet high. Probably it's a mass grave. In fact, I dug into the side of it until I encountered some human bones, then I replaced the earth and left it alone. A school principal took his senior students there once; they sifted the soil all around that stone-pile and found all kinds of arrow heads and other Indian relics."

His companion added something else:

"Near the pile, the Indians used nigger-head rocks to make single-line drawings on the hillside. Some are of human figures, then there's the outline of a horse and also a smaller animal which may be a dog. They're worth seeing."

The tall farmer nodded eagerly and told about a cliff four miles from the graveyard that was another type of cemetery.

"Indians chased buffalos over that cliff, to get their winter food supply. You can see a seam of buffalo bones there that measures three feet thick. The bones haven't all crumpled away, either—there are some pretty good skulls left, even today. I picked out the skull of a buffalo calf for a keepsake. You better pay us a call and have a look at all this Indian stuff and buffalo bone-yard."

I hope to do just that, one of these days. Not only because of the interesting historical relics they've found, but because it'll be fun to visit such a pair. And here's hoping that many other farmers take time out from work, now and then, to enjoy a companionable holiday like these two good fellows.

Farm Service Facts

No. 32W PRESENTED BY



IMPERIAL OIL LIMITED

YOU'LL BE WISE TO CLIMATIZE

Weatherproofing and insulation may save over half on your winter fuel bill

Heating engineers have found that weatherproofing is as important as insulation in making a house comfortable and in saving fuel. To make your house weatherproof you may need to do the following:

1. Repair any cracks or air leaks in walls, floors or ceilings.
2. Caulk windows and door frames to make them tight. If walls are brick or stone it may be advisable to remove the staff board around the outside of the frame and caulk between the frame and the wall. (See fig. 1)
3. Weather strip around doors and windows. Metal weather stripping will give the best long-time service. Felt contact strips will do for short-time use.
4. Re-putty loose window panes.
5. Install storm doors and windows.



Fig. 1 Caulking with a plastic compound around windows closes air leaks. The compound is best applied with a caulking gun.

Insulate roof first

If you can insulate only a part of the house, start with the ceiling or roof as it is through these that the largest portion of the heat is lost. If the attic above the heated rooms is unfloored, loose or pour-type insulating material may be spread between the joists with a rake or short board. Provide ventilation by means of an attic ventilator. (See fig. 2a)

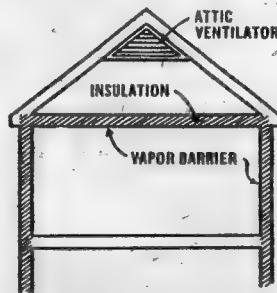


Fig. 2a Unheated attic. Good insulation is required for winter and summer comfort. An attic ventilator carries away moisture.

If heated rooms occupy most of the attic space, insulation will be more difficult. If insulating material is placed between the rafters a 1" air space should be left above the

insulating material and the space ventilated by means of an opening at the cornice. (See fig. 2b)

When you are insulating the walls of an old frame house it is often easier to remove a board and to blow in insulation rather than use blanket or bat type or board insulation.

Brick or stone houses that are already finished are usually the most difficult and costly to insulate. The simplest procedure is to use furring strips on the walls and to apply new interior finish. If pour or blanket type insulation is used, the strips should run up and down the walls. With metallic foil insulation, strips should be run horizontally to reduce to a minimum the height of air space in the wall.

How much insulation to use

The amount of insulation will depend on whether planer shavings or commercially prepared materials are used, and on a number of other factors such as the locality, how well the house is built and what it is built of. Dry planer shavings have approximately two-thirds of the insulating value of commonly available commercially prepared materials.

The first inch of insulation gives a greater percentage saving in fuel cost than does the second inch. The total saving in using 2 or 3 inches of commercially prepared material is, however, greater than for one inch. Because much of the cost of insulating is for labour, it may pay to install 2 or 3 inches while the job is being done.

Proper use of vapour barrier important

A vapour barrier placed on the inner or warm side of the wall or

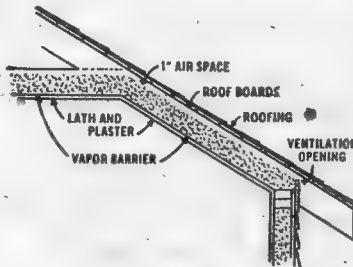


Fig. 2b Heated attic. Insulating material between rafters should be kept away from roof boards. The insulating material is ventilated through an opening at the cornice in this case.

ceiling is essential in keeping insulation dry. (See figs. 2a and 2b.) Damp insulation not only loses its effectiveness in resisting loss of heat, but it may also settle and disintegrate. Dampness in the wall favours decay of wooden parts of the building and may cause paint to peel from the outside of buildings.

Tarred paper does not make a satisfactory vapour barrier. Use Asphalted treated kraft paper or any of a large number of metallic-surfaced materials that are available on the market. For walls that are already plastered, two coats of aluminum paint or special paints made by reliable manufacturers make a satisfactory barrier.

USE

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Pays!



- ★ Absolute protection at low temperatures.
- ★ High boiling point for tough winter work.
- ★ Permanent—no evaporation.
- ★ Non-corrosive.
- ★ Non-inflammable.

If you're using your car, tractor or truck this winter, it will pay you to check the advantages you get with Esso-Rad Anti-Freeze.

Not only do you get absolute protection from such costly repairs as a cracked engine block or a damaged radiator but your whole cooling system is protected from rust and corrosion.

A high boiling point makes it ideal for such heavy duty work as clearing snow with your tractor or bucking snow drifts with your car or truck.

Compared with volatile anti-freezes, Esso-Rad is safer because it's non-inflammable. Besides, it costs less in the long run. A permanent type anti-freeze like Esso-Rad doesn't evaporate—one filling lasts all winter.

Arrange today for low cost, high value Esso-Rad protection.

See your Imperial Oil Agent



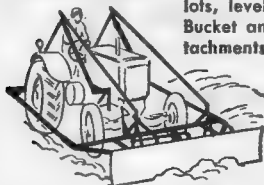
This Tool Knows No Off Season



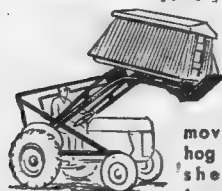
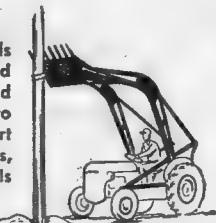
NEW IDEA-HORN (formerly Horndraulic) Loader • Stacker Dozer

There are ten easy-on attachments that keep the New IDEA-Horn Hydraulic Loader working all year 'round: Manure Bucket; Pitch Control; Dirt Bucket; Snow Scoop; Angle Dozer Blade; Straight Dozer Blade; Push-off Stacker; Buck Rake; Loader Boom; Grapple Fork.

Dozer Blade moves dirt, snow, sand, gravel. Builds terraces, cleans barn-lots, levels land. Dirt Bucket and Scoop attachments.



Sets poles, pulls posts, moves and dumps stones and stumps. Handy to lift and transport milk cans, barrels, feed sacks, rolls of fencing, etc.



Makes job of moving portable hog houses, range shelters, feed troughs, other bulky portable equipment, easy.

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NEW IDEA SUBSIDIARY
FARM EQUIPMENT CO. **AVCO** MANUFACTURING CORPORATION

Send free literature as checked:

- ☐ New Idea-Horn Loaders
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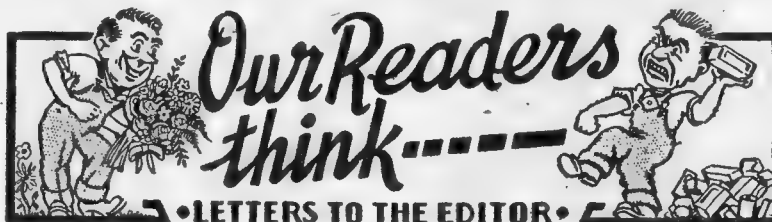
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Allied Farm Equipment, Ltd.
Sutherland Ave. at King
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Kern Farm Equipment, Ltd.
1374 Broad St., Regina, Sask.
106 Ave. B South, Saskatoon, Sask.
Northwest Farm Equipment, Ltd.
Corner 7th Avenue and 6th Street
Calgary, Alberta
Finning Tractor & Equip. Co., Ltd.
940 Station St., Vancouver, B. C.



This Master Farm Family, the John Skrypitskys of the Royal Park district, east of Mundare, are pictured here on the front steps of their modern farm home. In the back are Archie and Walter, in the front from left to right, Vicky, Mr. Skrypitsky, Mary-Jane, Mrs. Skrypitsky and Zonia.



Sour, old bandersnatches

To the Editor:

I have just been reading the scurrilous attack of you and your miserable neighbour the "Calgary Herald" on the British people, dated August, '52. I am sending it to a British paper to see how their "dear friends" the Canadians regard them.

It really seems that the Canadian people and the Canadian Government want to be awakened to the fact that Britain at the present moment is at her best in the eyes of the world, with the exception of the great "Olympian" Canada, who, as someone in England remarked the other day should come down from her "Olympian" aloofness and play the game with the rest of the world.

I consider it a great presumption on your part to publish such a criticism of the English nation which looks to me like the ravings of some soured old bandersnatch who has been disappointed in something or other.

Albert O. Reid.

Hoselaw P.O., Alta.

Saddening Experience

To the Editor:

May I be allowed to congratulate you for printing and Mr. Sanborn for having written the article "Take it from here". It is unfortunately, so true, as an old English farmer, living here over forty years and always

thinking of the British workman as the best in the world, it was with mixed feelings I read it. I must say your paper is most interesting.

J. S. Russel.

Kaslo, B.C.

Protect bird-houses

To the Editor:

Your October number came into my home as a gift. On page 14 is pictured a cat robbing a bird nest, (a marauder).

I am very fond of cats and birds, but realize keenly the enmity to birds in cats, but since each was created feel we must make the best of it.

The pictured cat is evidently marauding a bird house. As a protection to bird houses on post or in tree tack a sheet of tin, or anything which a cat cannot stick its nails into, about as high as they make at first leap up post or tree or higher and wide enough so the cat cannot reach above the tin, and all around the post or tree. Wm. E. Pringle, Lunnford, Alta.

To the Editor:

I would like to obtain some information on making a rock garden from your department. It may be too complicated to explain in your column, then if you prefer send in my name that readers may write direct to me.

Thank you and keep up your good work. Sincerely,

(Miss) Olive Shtuka.

Preeceville, Sask.

FOR THOSE WHO WANT MAXIMUM LIVESTOCK PROFITS



No other molasses product contains the valuable mineral salts found in Betalasses. It is the proven sugar ration for all stock—makes even a straw diet palatable; saves grain, shortens feeding periods, and is one of the greatest conditioners known. Good quantities are available this year—order direct from your feed dealer. Or, write direct to the factory for free feeding information.



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Your Wetmore Mill is quickly and simply adjusted to perform ANY feed chopping and grinding job. It fairly "eats up" either threshed grain or bundles . . . wet, green or bundles . . . wet, green or dry bundled. Chops coarse or grinds hay and roughage . . . loose or to any fineness desired. Fillasilo, tool



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the all-purpose mill with 19-year reputation for superior performance.

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Before you buy any feed grinder see what the Wetmore Mill will do for you. We'll gladly demonstrate it . . . on your own farm if you wish . . . without obligation.

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Atlantic Salmon from the rivers of Eastern Canada. A supreme thrill in fishing—to reel in this big, fighting gamefish, world famous for its delightfully clean taste.

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"For clean taste... look to Canada"



"Clear, icy waters—grainfields rich and golden—wealth of sun and sparkling-pure air—this is Canada. It seems only natural, then, that so many of her good things to eat and drink have such a wonderfully clean taste."

The above illustration and text are from an advertisement now being published by The House of Seagram throughout

the world—in Latin America, Asia, Europe and Africa. This is one of a series of advertisements featuring Canadian scenes and Canadian food specialties. These advertisements are designed to make Canada better known throughout the world, and to help our balance of trade by assisting our Government's efforts to attract tourists to this great land.

The House of Seagram feels that the horizon of industry does not terminate at the boundary of its plants; it has a broader horizon, a farther view—a view dedicated to the development of Canada's stature in every land of the globe.

The House of Seagram



What if your future overtook you to-day?

Every man wants to be sure that should anything happen to him, his wife and family will be able to keep the home together and in a position to carry on the farm.

There's no better way of doing this than leaving it free of debt and worry through the protection of Mutual Life insurance.

The sooner you start your protection, the smaller the premium will be.

The good thing about Life Insurance is that while you are protecting your family, you are also saving for your own future and the days when you want to retire.

Everyone Needs Insurance — Everyone Can Afford It

Find out today how you can protect your family ... and set up a retirement income for yourself for the days when you want to retire.



MAIL THIS COUPON

THE MUTUAL LIFE OF CANADA
WATERLOO, ONTARIO

Please send me your free booklet "What Life Insurance can do for the Canadian Farmer".

NAME.....

ADDRESS.....

Getting year-round color now so easy in the West

By H. F. HARP

AS the beauty of autumn wanes, prairie gardeners would do well to consider the merits of those species and varieties of trees and shrubs that by their bark and twig color or showy fruits add interest to the otherwise sombre, snow-clad landscape. Too often a garden is a summer pastime only. When frost lays a heavy hand on summer's gaiety of annual flowers and finally on the late blooming perennials all thoughts of plant life are put away for another year. This is both sad and unnecessary as interest may be maintained by planting trees and shrubs with colorful bark that lights up the winter landscape, or whose winter fruits attract the hardy birds providing them with nutritious food.

The choice of plant material suited to this purpose is large and varied. Listed here and desirable are some that have proven hardy and desirable in prairie gardens.

Spring Beauty

In dealing first with fruit-bearing ornamentals, these have the added beauty of showy blooms in May and June. The Rosybloom Crabapples are among the most useful shrubs for supplying winter fruits. In some instances the fruit stays on the tree until the blossoms come again. The variety "Almey" is notable in this regard. It is hardy and recommended for prairie gardens where reasonable shelter can be provided and when established it forms a spreading tree-like shrub densely covered with rosy-red, starry blossoms followed by bright red crabapples.

Besides "Almey" the varieties "Strathmore" and "Rudolph" are recommended.

The Siberian crabapple is highly ornamental in bloom and fruit, besides being a useful pollinator for the Rosyblossoms.

One of the most glorious spectacles of the autumn garden is a well fruited tree of Mountain Ash. The foliage takes on brilliant shades of yellow, orange and fire-red. Often the pageant is rather short-lived as frost causes the leaves to fall and robins make short work of the fruit. However, when other fruits are in plentiful supply the naked branches of the Mountain Ash will carry clusters of scarlet berries well into winter.

Bird Food

The Sea-buckthorn or Sandthorn is another shrub of great beauty when seen in full fruit. It tolerates saline conditions, endures drought, and has narrow silvery foliage. Its chief merit is the dense masses of bright orange berries that persist on the plant all winter. The early spring birds find them exceed-

ingly palatable and nourishing.

As the Sandthorn bears flowers of one sex only on single plants, a group planting containing several females and one male plant will ensure a good set of berries. The native Highbush Cranberry (*Viburnum trilobum*) is undoubtedly one of the most useful shrubs. It lacks color in the bark it is true, but more than makes up for this by the rich red coloring of its autumn leaves and pendulant clusters of crimson berries that are freely borne and stay on the bush all winter. In fact, dried fruits have been observed as late as mid-June. The Highbush Cranberry tolerates a position of full sun or partial shade but appears to be more fruitful in a sunny spot. As a hedge it can be a handsome garden feature if maintained in good shape by trimming with the seccateurs rather than the hedge shears. The latter will mutilate the leaves, spoiling their appearance.

The new purple leaved Chokecherry, "Schubert", retains its foliage well into the late autumn and is fully hardy. It is recommended where the purple-leaf plums do not succeed. "Schubert" is unique in that its foliage first appears green, later, about mid-summer it starts to change to purple.

The Mongolian Oak is a new introduction of great merit. A tree-like shrub with dense, handsome foliage that turns an appealing shade of brown and remains on the tree until late winter. It is fully hardy, slow-growing and well suited for use in small gardens.

Bright Pods

While the chief merit of the Japanese Lilacs is the handsome broad panicles of creamy flowers which follow in season of bloom the French Lilacs, the winter beauty of the plant cannot be denied as the show of bloom is followed by ornamental seed pods richly colored a tawny hue.

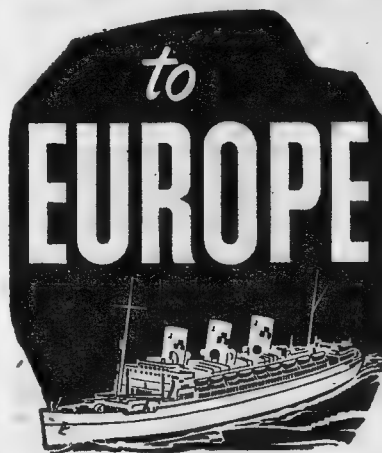
The Anur Lilac, a close relative, is equally beautiful. Both are non-suckering in habit and grow about 15 feet high.

The hardy shrub roses contain some interesting plants for winter color.

The Altai Rose bears abundant purple-black fruits that persist throughout the winter. The Turkestan Rose (*R. laxa*) has handsome bottle-shaped fruits of brilliant red. The Bristly Rose of Newfoundland (*R. nitida*) deserves to be more widely grown. Its glossy, bronzy-green foliage turns a vivid orange scarlet in autumn. Its scarlet hips are scattered about the low bushes like winter cherries. Winter stems and twigs are reddish.

The well-known Rose, "Betty Bland", has pure pink double

The CRUISE ROUTE



Visit the Old Folks
for Christmas

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EMPRESS OF FRANCE
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First Class: \$230 up
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CALGARY EDMONTON, REGINA, SASKATOON

COPENHAGEN

**"THE WORLD'S
BEST CHEW"**

flowers and bright red stems in winter. A regular pruning of old wood should be carried out immediately after the plant has bloomed to encourage the production of young, vigorous wood that is most colorful.

Golden Willow

The willows provide the most brilliant color of all the plants we have. From the time the leaves fall until buds begin to show signs of awakening the willows are aglow in brilliant shades of yellow and red.

The Golden Willow and Red-stem Willow are two of the outstanding varieties.

By cutting down established plants in April to a few inches above ground level, new shoots will put on 6 feet or more growth by season's end. This pruning should be done every spring if willows are grown for their high bark color.

The Green Stem Willow or Laurel Willow makes a worthy companion for the others. The stems are robust, dark green in winter. Its summer garb is particularly pleasing with thick, glossy, dark-green foliage. Being somewhat less hardy than Red-stem and Golden Willow, it should have a position well sheltered from the north and west. The Red Osier Dogwood has winter bark color of a reddish hue. The old wood is best removed every second year to keep the plants in youthful vigor. Associated with the native white Birch the effect is striking.

The Dwarf Burning Bush (Evonymus nava) has the merit of retaining its foliage throughout the winter. In autumn it turns to red-purple. The fruits are dainty pink pods that split open revealing bright scarlet seeds after the manner of the Bittersweet its nearest relative.

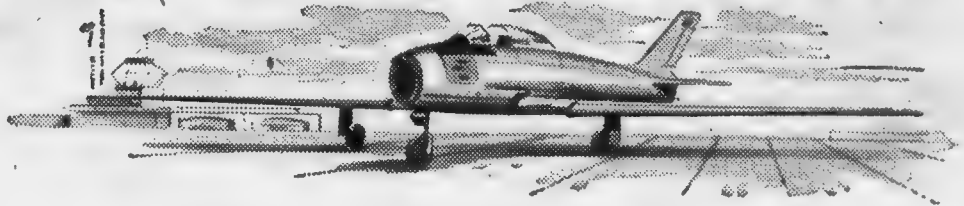
The Evergreens

The evergreens complement the colorful shrubs with their sombre dark green hue. Native and Colorado Spruce make fairly rapid growth when once they become well established. The Pines must have well-drained, loamy soil and shelter to succeed in Prairie Gardens. Hardy strains of Scotch will make picturesque trees where these conditions exist. Mountain Pine makes a broad bush sometimes reaching to twenty feet. Dwarf varieties are useful as foundation plants.

The Swiss Stone Pine (Pinus Cembra) is ideal for the small garden. Its natural outline is pyramidal and its foliage is dark green. Specimens have attained a height of 40 feet in Manitoba.

The hardiest Arborvitae or Cedar is the Siberian form of western Cedar (Thuja Wareana). The dark green foliage is particularly attractive in winter. Many of the more choice varieties must have good shelter and well-drained soils if they are to succeed. Plantings on the north or east side of a building is preferred.

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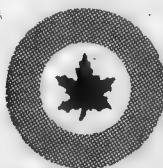
STREET ADDRESS.....

CITY.....PROVINCE.....

EDUCATION (by grade and province).....

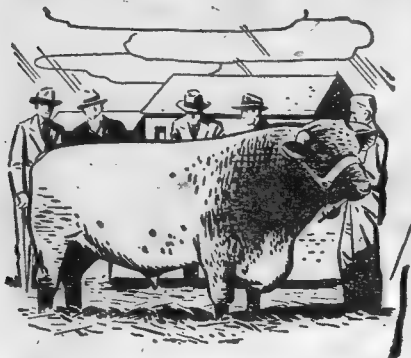
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Williams Lake sale has raised cattle quality

By TOM LEACH

THIS is not about one sale. I find it difficult to think of the annual feeder and fat stock sale at Williams Lake, B.C., in terms of a single sale. Instead I like to think of it as the whole series of annual events which have followed one after the other since the idea was conceived back in 1938.

Livestock auctions have become a popular means of selling stock during recent years. Thousands of cattle are sold daily by this method at the larger markets across Canada and weekly at the smaller centers. Vancouver has a weekly or sometimes a bi-weekly sale depending upon the number of livestock shipped to the yards, but at Williams Lake there is one sale a year.

About the time the grass begins to grow thin, when water holes begin to dry up and a snap of frost appears in the early morning air the ranchers of the Chilcotin and Cariboo begin to balance their haystacks against the number of cattle they will have to carry over the next six to eight months.

Some found more cattle in their yards than they could handle and in the years before the sale at the Lake they were shipped off to market as grass-finished cattle. Prices were none too good to begin with and the rush of these cattle to the market in the fall of the year always created a further cause for sacrifice prices.

The purpose of the sale to begin with was to bring the cattle and ranchers together at a central point. The committee of the cattlemen's association also hoped that outside buyers would be on hand to bolster the bidding. But the idea didn't get the resounding reception they expected.

Big Growth

Looking back on that first sale now and contemplating its growth during the intervening years brings a pleasant smile to the faces of the cattlemen and the government agriculturists who set out in 1938 to grapple with a serious marketing problem. There has been a definite "about-face" regarding the merits of the sale in the fifteen years.

The directors of the first sale almost counted their sale numbers too soon. At the outset they believed the problem of getting a thousand to fifteen hundred head of cattle would prove simple. A quick survey of ranchers and business men showed interest in the project was high but somehow it cooled rapidly. By sale date the drives to the yards had dwindled. Instead of a thousand or so head the directors found only a bare 500 head in the yards and many of the cattle offered were culls which were considered worth the gamble.

Packer buyers gave the sale good support. They could afford to since it saved them money in shipping and buying. The cattle were in yards next to the railway and ready for shipment in carload lots. They bid prices at that first sale which took bankers and many dubious ranchers by surprise. One with 150 head who had withdrawn his entry in the sale at the last moment, sold his cattle a week later 1½¢ lower than similar cattle moved in the auction.

The number of cattle shipped each October to the sale mounted year by year. The yards had to grow to cope with this and now stretch for more than a half mile along the edge of the lake and just above the railway tracks where the cattle cars stand like an immense fence for the few days at sale time.

The record offering of cattle was reached in 1949. That was the year when more than 1,800 steers were driven into the yards. It was the year when a heavy drive came across 275 miles of rangeland from the outpost of Anahim Lake and arrived at the yards in fine condition after almost a month on the trail. That was the year when the total of all classes brought almost half a million dollars to the districts ranchers.

Better Quality

Several years before that the graders were taking note of the class of cattle coming to the sale. Many were poor quality—indicating a mixed heritage with evidence of dairy temperament shown in too large a percentage. Better bulls were thought to be the answer and with that decision came the first bull sale to be held in conjunction with the feeder and fat stock sale.

Breeders were a little timid at first. The Cariboo had never been a lucrative market for purebred sires. They were of the opinion that they would find a poor reception for herd sires at the sale but a few made a stab at it. They took a plunge and found the water fine and have been coming back each year since with better bulls.

The surprising average of \$868.00 for the 67 bulls offered in 1951 established a record for the sale. The price of \$2,200.00 paid for a single bull at the same sale set the record for the Cariboo. But it was not the price of the bulls nor the number sold which drew the attention of the livestock men. It was the improvement in the cattle which filled the pens.

There is no yardstick by which the improvement could be measured. The biggest proportion of the cattle sold at Williams Lake each year are feeder cattle and close to 40% of the sales are made to ranchers who take the cattle back home for more finish. Few of the stock sold to packers are fed to a point where grading could

indicate any change in quality. It is only the word of those who attend the sale from year to year that attests to the change in type, to the effect which the use of better bulls has shown, but they are definite on that point.

At this point in the life of the sale though there is a change noticeable. Some have attributed the lack of interest in the bull sale to represent simply a lack of faith in the future of the beef industry. The number of bulls offered at the 1952 sale was the highest since the sale started. Bidding during the sale was slow and many were passed out of the ring for the lack of an opening bid.

Better Stock

After speaking with several of the ranchers I am convinced that they are as anxious now as they ever have been to improve the stock which they have. They want good registered sires to put out on the range but what they considered a good bull for that purpose in 1944 or 1945 is no longer useful to them. Today it requires an exceptionally good bull to do what they want. Simply because a bull is registered they will not be satisfied to offer a good price for him.

They continued to pay good prices for good bulls. Of course, as is true at most auctions, the occasional buyer obtains a bargain and that was true of the 1952 bull sale at Williams Lake but most of the good bulls worked up to prices equal to or above the high average of the previous year.

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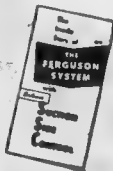
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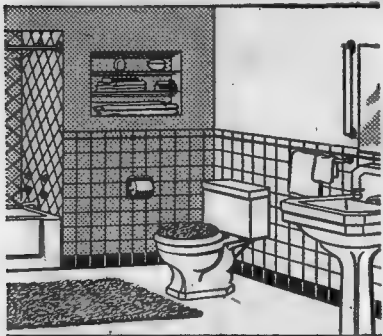


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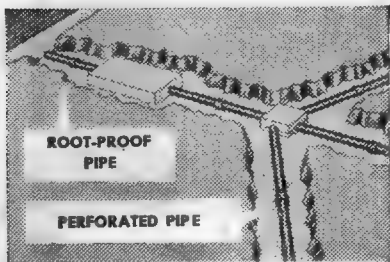
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The Schmaltz Master Farm Family. Front row (left to right): Lima; J. H. (Joe) Schmaltz; Mrs. Schmaltz; Stanley, of Calgary; (back row) Norman; Leonard, of Calgary, a T.C.A. pilot; Gregory, and Clarence



We have a pig pasture. Three sides are fenced with hog wire. The fourth boundary is a lake. One of our larger pigs learned to swim across the lake and get into the stooks. One day we noticed her in the field and sent our dog after her. She galloped full speed toward the lake with the dog after her. She came to the lake in a hurry and started swimming. Then the dog did a most surprising thing. He followed her a yard or two, then jumped on her back. It was very comical to see a pig swimming and squealing and a dog riding on top, growling and biting it now and then.

Bill Gray,
Myrnam, Alberta.

One day, when we looked towards our garden, we saw what looked like a large water bird. When we went down to investigate, we found the bird quite tame, and caught it quite easily. We put it in the barn and looked in some bird books. We found out that it was a blue heron, and it feeds on raw meat. We gave it some raw meat and grain but it wouldn't eat. We kept the heron for two days during which he grew weaker and weaker. By that time he could hardly stand, so we took him to a nearby slough. The next day, I went back to the slough and, to my regret, the great bird was dead. The heron was about two feet high and a blue-grey color. It had a long neck, which he folded while resting, making him look odd. It had a long bill, and a tuft on its head. It had long legs, like most waders. It was a truly beautiful bird, and

no one I have talked to has ever seen one.

Patsy Guggenmos.
Vera, Saskatchewan.

My brother Earl and I have a black horse which we ride to school. His name is Flash. Last Thursday the road was good so we decided to take our bicycles and left Flash tethered in the yard to get some grass for a change. Well in the afternoon he got loose somehow and went to school after us I guess, so one of the neighbor boys rode my bike home and I rode Flash. Sometimes before if one of us happened to be sick and not go to school he always would stop where we get on to wait for the other one.

James R. Branson.
R.R. 1, Innisfail, Alta.

One day when it was raining, I saw all of our ducks lined up in front of the chicken house. It seemed to me they were playing some kind of a game. First one duck ran away from the group lined up, then a pair ran away, and then all the remaining ducks in the group lined up started chasing each other. After they chased each other for quite a distance they all came back running to the front of the building and lined up again. They kept repeating this stunt over and over again until I went out to feed them.

Rusty Nowosad.
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DURING the latter part of September and first half of October, strong winds caused the dry surface soil on many summerfallow fields throughout the southwestern section of Manitoba to drift.

The incidence of drifting on the Reclamation Station at Melita was negligible because measures designed to control wind erosion are constantly practiced.

While strip-cropping has dis-

Soil drifting in Manitoba

tinct advantages, the maintenance of trash cover is of primary importance. This can only be achieved by the judicious use of surface tillage implements and then, not more frequently than is absolutely necessary to control weeds.

It is a recognized fact that trash cover on land being sum-

merfallowed in Manitoba for the most part disappears after three months of tillage. The too-frequent use of the one-way disc and also an excess of cultivation are the main factors contributing to this condition. There is perhaps too great a desire in this Province to maintain a perfectly black summer-

fallow that is attractive in appearance but dangerous from the standpoint of erosion.

Soil drifting control must therefore continue to stress adequate trash cover, narrow fields; crop rotations including grass, cover crops, field tree shelters; and by all means methods that preclude the necessity of burning straw and stubble.



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The Master Farm Family Award is recognized by an award of \$1,000.00, an engraved plaque and a name plate for the farm entrance.

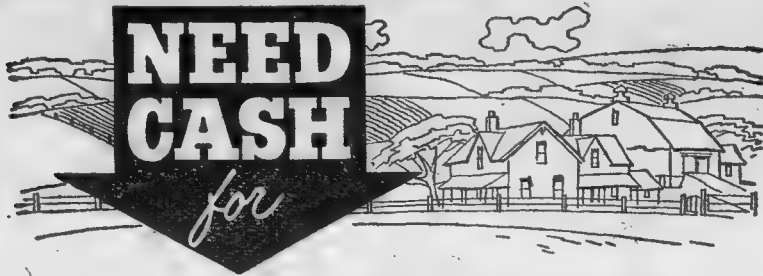
The purpose of the Master Farm Family program is to find and honor those who have achieved notable progress in farming, home-making and citizenship, and who, by their example, are encouraging interest in farming as a way of life. The Department of Agriculture is indeed proud and gratified with the high standard of attainment among the farm citizens of Alberta as revealed by the Master Farm Family program.

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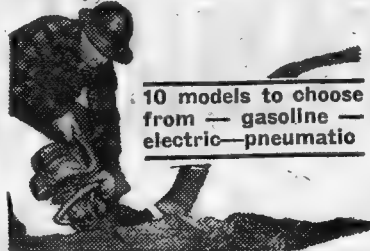
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Trash cover saves soil and adds fertility, too!

By JOSEPH PAUL

A CHANGE to plowless farming started on the short-grass plains over 30 years ago. The value of stubble as a protection to the soil during the summerfallow season was soon recognized. Duckfoot cultivators were used where the stubble was not too heavy. Several farmers designed sub-surface tillage implements adopting the principle of wide-sweep shovels running under the surface of the soil. Some of these early attempts produced implements which operated with a fair degree of satisfaction; and they indicated the line of development which later resulted in the blade cultivator.

The development and use of sub-surface implements was temporarily sidetracked by the general adoption of the more adaptable one-way disc. The introduction of the combine harvester at about the same time created the need for an implement which would operate through the combination of straw and stubble. Thus the popularity of the disc was increased.

Whether the one-way is more closely related to the disc plow or the disc harrow is a question which need not be argued here; but many farmers thought of it as another tool for "plowless" farming. It was recognized that a fair amount of protective trash cover was left after one operation of the one-way in heavy stubble; and some might be left even after the second time over. This has led to a very broad interpretation of the expressions "plowless farming" and "trash cover".

Indeed it is possible to find quite a few people who are working their land deeper than they ever plowed it, turning it over 3 or 4 times in a year instead of once; and they describe this as "plowless farming". Many of these same people will tell you they are using trash cover; but by the time the second fall of the fallow period has rolled around, the soil on their fields is as bare as the proverbial "September morn". That, of course, is the beginning of the critical period of soil erosion, especially by soil drifting; and the fall, winter, and spring seasons are the periods when trash cover should show its greatest value.

Under such conditions one of the most important values of trash cover is lost and tillage should be planned to protect the soil as much as possible by small clods on the surface. Added protection is gained by reducing the width of fields.

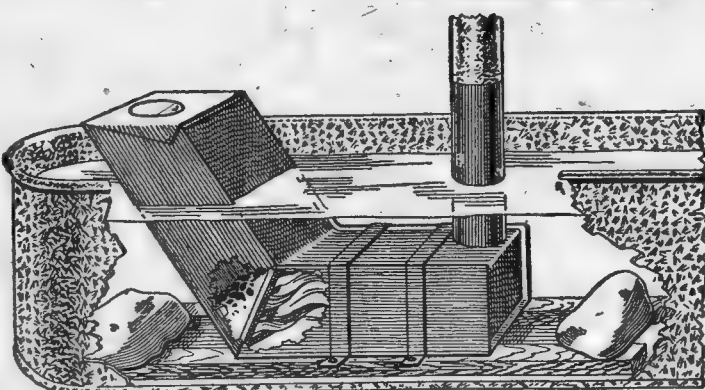
Even under such a system the trash may be quite important while it lasts. It forms by far the most effective protection of the soil surface during heavy showers; and may thus prevent erosion and increase the absorption of rain water during the summer. There is evidence that evaporation from the surface soil is slowed down appreciably by the sheltering and shading effect of trash cover.

These factors are sufficient reason for saving the stubble and straw even though it has disappeared from the surface of the fallow by the end of the summer. And, of course, there is an even stronger reason why stubble and straw should not be burned.

One ton of straw contains about 10 pounds of nitrogen and 2 pounds of phosphorus, besides well balanced amounts of other essential elements. The phosphorus content is equal to that commonly purchased in about 50c worth of 11-48-0 fertilizer. The nitrogen is almost equal to the amount in a 100 pound sack of 11-48-0 fertilizer which costs over \$5.00. The decayed straw forms humus, without which the soil cannot be maintained in tilth and fertility favorable to crop production.

So far the only material which has been mentioned as trash cover is the stubble and straw of the crop. The stubble usually contains stems of ripened weeds which have their value both as trash and fertilizer. In general, however, stubble which is fairly free of weeds is considered more effective in gathering snow; and it is certainly much easier to handle and conserve with most types of tillage machinery.

Green weeds have very little value as trash cover. They wilt and decay rapidly, and offer only temporary protection from the wind and sun. What little value they may have as trash will never compensate for the



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moisture they have used. Even the fall growth of Russian thistle in stubble fields appears to lessen the amount of moisture saved from fall rains and snow.

The use of trash cover farming has been extended into many districts beyond the short-grass plains. It can be such an effective protection against erosion, there is little doubt the practice will develop and persist, with suitable variations, in many districts as time goes on. But as the bulk of straw and stubble increases, it becomes harder to handle without plowing; and no doubt there are many circumstances where no attempt should be made to follow the system as it is practiced in the drought area.

The practice of using trash cover is relatively young and will no doubt run into difficulties as time goes on. One of these is becoming evident at the present time. The rootrot organisms which are always present in prairie soils are often harmful to grain crops. There is pretty definite evidence that old stubble and straw on the surface of the ground may harbor the rootrot organism in a stage which can attack young grain seedlings. Treatment of seed with fungicides does not appear to protect the seedling against this type of infection. If the organisms are worked back into the soil, they are evidently kept under control to some extent. In any case there are some districts where less rootrot occurs if the old stubble and straw are turned under at seeding time or sooner.

These discoveries indicate it may be desirable to get rid of the trash of one crop before the next crop germinates. But even as these observations are being pondered over, others are striving to perfect new types of seed drills which will make it possible to plant grain under a heavy cover of old straw and stubble.

There will be a tendency under some conditions for the top few inches of soil to become overloaded with partly decayed material. A certain amount of this is desirable and helps keep a good soil structure; but an excess will result in a soft textured layer which will not form a firm crust after rains. Such soil can be washed or blown away more easily than the firm soil which may be brought up from a few inches lower.

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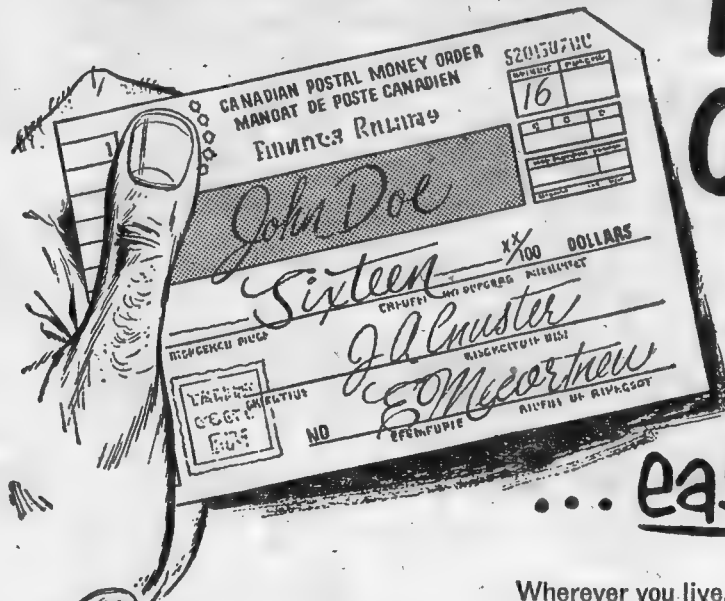
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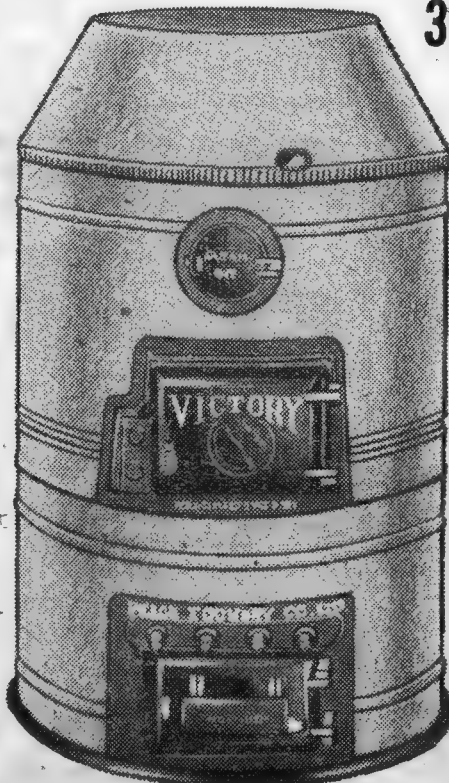
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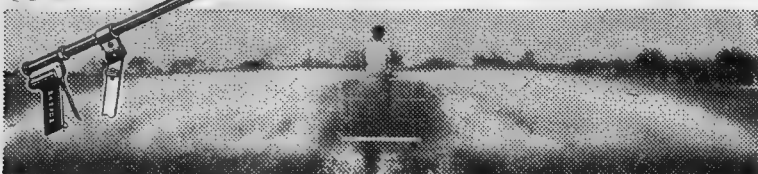
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Here are four sure ways to make a failure of life

By DR. FRANK S. MORLEY, Ph.D. (Edin.), B.D.

EVERYONE is giving advice on how to succeed in life. Courses are given on success. Books are written on success. Let me tell you four sure-fire ways to fail.

First, get your eye off your main aim. I have seen a number of world series baseball games and like to listen to the world-series broadcasts. Recently listening to the Dodgers-Yankees duel I recalled a story of those "Daffy Dodgers". Babe Herman—if my memory serves me correctly—was on his way to catch a fly ball when his cap fell off. He stopped, picked up his cap, put it on. By this time the ball had dropped. Perhaps he needed the cap to shield his eyes. I am inclined to think that he just got his mind side-tracked. How foolish, you say? But you do the same thing frequently. And you, too, can miss the catch in life by forgetting your objective.

What is it you want most in life? People who decide that and then keep their eye on the goal succeed.

Get your mind divided between conflicting desires. Do one thing but want to do another. Never give yourself heart and soul to anything. Divide yourself between a multitude of odd jobs. Be what the Bible calls "double-minded". You'll soon find yourself running in circles. Psychiatrists call such people "split personalities". They may end up in mental homes. But they most certainly fail.

Churches, for example, forget what they are in the world for. They develop ornate ritual and build imposing cathedrals. You can find countries, therefore, where the Church is hated. It exists only to preserve its privileges and buildings. A true Church exists to change character and to change a community for the better. When it for-

gets that aim it has lost the game. It has got its eye off the main purpose.

Jesus said, "The light of the body is the eye: if therefore thine eye be single, thy whole body shall be full of light." But this is a sermon on failure; so just do the opposite.

Chase Happiness

A second rule for failure is to pursue happiness. I was reading the story of a Hollywood actress who committed suicide. She had been famous. Then her fame started to slip. Her popularity waned. Her money went. She lost her home and motor cars. Poor girl: she had based her life on her desire for pleasure. Sooner or later it ruins you. The pursuit of happiness is the unhappiest of all pursuits. Make the yardstick of your life the sum of pleasures. Avoid all struggle, all responsibility, all pain. What a hell you're getting ready for yourself!

Self-indulgence and luxurious ease are sure ways to miss the greatest joys of life. You'll not have any of the fun of struggle. You'll have no joy of achievement. You'll be the loneliest creature on earth, without love and without friends. And when you die nobody will care at all. What a miserable mess you will have made of your life!

Of course you will have much company. Many people live today as if eating and drinking, dancing, movies, and a purely animal life were the great objectives. Hard work is an injustice. Any effort or struggle should never be asked of them.

There is a third still better way to commit practical suicide. That is to carry bitter memories. If a man can make you hate him, he's won a real victory over you. How you are going to suffer! There is nothing that eats a man's heart so

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much as resentment. I have known some remarkable failures who had carried bitter grudges for years. There is no limit to the amount of time you can carry them. Indeed you can train yourself so that grudges will grow and multiply. In time you come to notice things to resent and you overlook good things that happen to you. Such bitterness is an achievement. Others have done it, so you can too.

Of course, you can become a magnanimous, big-hearted person and succeed if you don't watch out. Big-heartedness is just as much a habit as meanness.

It Doesn't Pay

Lincoln was urged to return vituperation with vituperation. He had much excuse for he was often lied about. He replied, "Somehow I never thought it paid". It doesn't.

It is just about impossible for any of these three ways to fail in ruining you. But if, incredibly, they should, there is a fourth way that is absolutely foolproof. That is, to "live alone and like it". There really are some people who live alone and get to like it. They withdraw from their fellows. They hate company. They make no new friends. Their circle gets smaller and smaller until it includes only themselves. What horrible, miserable little failures they are!

Lin Yutang in "The Wisdom of China and India" records the Oriental faith that, "By one's self the evil is done, by one's self one suffers; by one's self one is purified. The pure and the impure stand and fall by themselves; no man can purify another." That simply is not true. If no other person were involved in our evil, how simple it would be! But there is a train of consequences that not only touches my family and friends, but my whole community. Many a time I have been kept from evil because it would hurt others. Nor is anyone ever purified by himself. One is purified through teachers and friends, through people who love you and sacrifice for you. It is only through the suffering of the innocent that the guilty are purified.

We are bound together so that no man can be free until all are free; no man can be good until all are good; no man can be happy until all are happy. No man is a separate personality; he is always in relation. Our friends are part of us. Our family is part of us.

And as we increase our area of awareness we live a happier, fuller life. The love of man is the key to all earthly enjoyment. We must have such love to live. So Jesus, the night before His death, said to that miserable little band of His disciples, "Ye are my friends." He needed them not only now but in eternity so He went "to prepare a place for you that where I am there ye may be also". Friendship is the deepest law for good living.



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ALBERTA WHEAT POOL

- Information -

The Alberta Wheat Pool's assets include 485 country elevators with 410 annexes in this province and also in the Creston and Dawson Creek localities in British Columbia, the total capacity being 33,844,850 bushels. The Pool also owns a 5,150,000 bushel terminal at Vancouver and a 2,000,000 bushel terminal at Port Arthur. The grand total capacity of the entire system is 40,994,850 bushels.

Since its inception Alberta Wheat Pool has made the following payments:

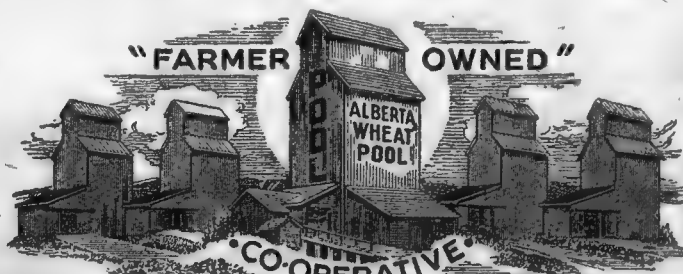
Patronage dividends in cash.....	\$ 5,099,683
Interest on reserves paid prior to 1929.....	631,253
Repayment of debt to government.....	8,855,629
Redemption of reserves.....	6,980,189
Total	\$21,566,754
Patronage dividend paid in reserves	5,983,644

The ownership of the Alberta Wheat Pool and Pool Elevators rests with farmer reserve holders. The farmer can become a member of the Alberta Wheat Pool by delivering 500 bushels of grain to a Pool elevator and purchasing reserves to the value of \$5.00.

The Pool policy provides for the payment of patronage dividends, partly in cash and partly in reserves, in years when earnings are sufficient to justify such action. Members can increase their reserve holdings by patronizing Alberta Pool Elevators.

This substantial Pool elevator system is a valuable property. It is operated for the benefit of the membership.

The Wheat Pool's objective is to keep handling charges as low as possible and return excessive earnings in the form of patronage dividends; also to redeem reserves from members who have ceased to farm.



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MORE MILK PER POUND OF FEED!

The Dairy Cow, a virtual milk factory, needs special feed support because she usually is working overtime at two jobs — keeping up a heavy milk flow while developing a foetus. To help her maintain good body condition and supply her with needed protein minerals and vitamins, balance her ration with Money-Maker Dairy Concentrate — a feed that has won approval for satisfactory results with R.O.P. Dairymen in Alberta.

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BUILD HEALTHY, RUGGED CALVES WITH

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The Money-Maker feed has been associated with a long list of prize-winning calves at Alberta Shows. Fed dry it provides tissue and bone-building elements and saves the need for quantities of costly milk.

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Vapour barriers are needed in insulated buildings

AN ice-cold drink in a tall glass is a treat on a hot summer's day.

Notice the outside of that cold glass. Probably it is "sweating." The moisture in the air has condensed on this cold surface. The same thing will happen on the outside of a cold-water pipe or pail of ice water. Moisture in the air may condense on cold spots in insulated walls or ceilings. This condensation may cause paint to peel off and it will be difficult to keep paint on the surface as long as there is moisture in the wall or ceiling insulation.

In poorly ventilated buildings where the air contains considerable amounts of moisture, the condensation on cold spots in the walls may be sufficient to soak the insulation, which may cause unpleasant smells, warping, and decay.

To guard against condensation, architects and engineers

specify that a vapour barrier be placed on the warm side of walls and ceilings of insulated buildings.

What is used? In new constructions it is usually a specially prepared paper. This vapor barrier paper may have metal foil on one or both sides or a heavy coating of wax or asphalt. This material is applied inside the studding before the lath and plaster or wallboard is put on.

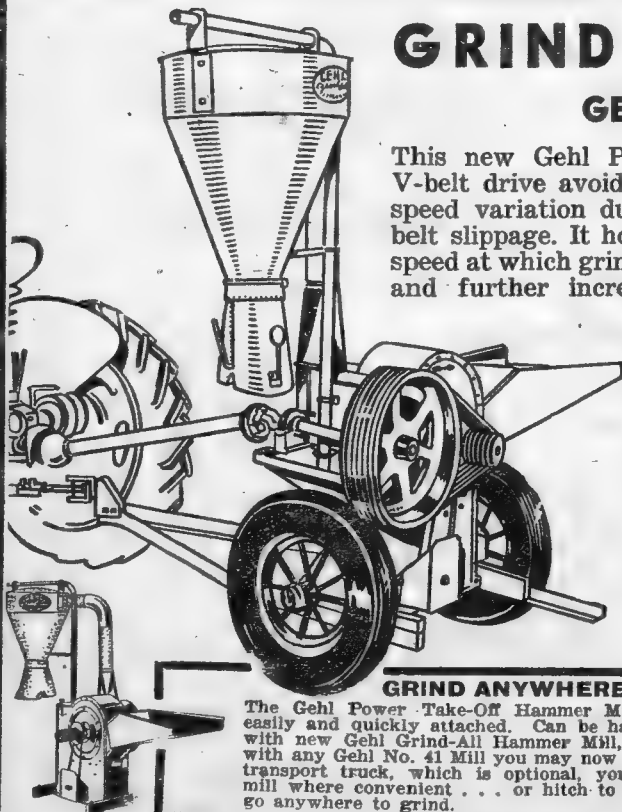
Where insulation has been put in walls or ceilings having no vapour barrier, protection may be obtained by painting the inside surfaces with two coats of a linseed oil base paint. The paint must form a continuous surface and is not effective when applied over V-joint or other material which allow the air to pass through cracks.

The outer side of insulated walls should allow some circulation of air to keep the inner material dry. Manufacturers of

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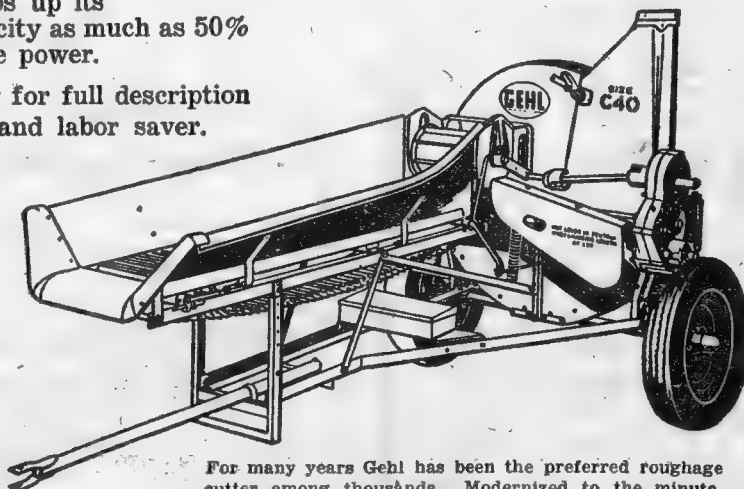
The Gehl Power Take-Off Hammer Mill Drive is easily and quickly attached. Can be had complete with new Gehl Grind-All Hammer Mill, or for use with any Gehl No. 41 Mill you may now own. With transport truck, which is optional, you can store mill where convenient . . . or hitch to tractor and go anywhere to grind.



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insulating sidings which are vapour-proof, usually include in their instructions a warning against using their products over walls where the air space has been filled with insulation, unless the outside material is applied over furring strips.

Correct loading brings efficiency

TESTS made at the Experimental Station, Swift Current, show that a certain tractor engine operated at its rated load of 37 h.p., used 0.62 pounds

of gasoline per horsepower-hour. This same engine when developing 27 h.p. used 0.84 pounds of fuel per horsepower-hour, and at 22 h.p. consumption was increased to 1.01 pounds per horsepower-hour.

This test shows very clearly that when a tractor is underloaded a great deal more fuel is required to do a given amount of work. Yet in spite of the fact that underloading is expensive there are many tractors in use which are underloaded.

The other extreme in which the tractor is overloaded is not found as often as underloading

but is an important consideration in operating tractors because of the following factors. The fuel consumption is increased slightly during overload. The tractor mentioned above used 0.65 pounds of fuel per horsepower-hour when loaded to its maximum load of 40 h.p. More important, however, is the fact that when an engine is loaded beyond the maximum its power drops off sharply so that even though it is pulling harder it will not do as much work in a day as it would at its rated load.

Another expensive result of overloading is the added wear and tear because of overheating and excessive loads on bearings and other moving parts. Wheel slip increases and wears out tires. In general when a tractor is overloaded its life is shortened with little or no increase in the amount of work it will do.

The foregoing observations show that the most economical operation can be obtained by operating a tractor at its rated load and the operator will be more satisfied with its performance.

Ireland ships more refrigerated meat to the United States than any other country. Exports of fresh and frozen beef from Ireland tripled in 1951.

Meditations at twilight

By A. L. MARKS

THE most appreciated Christmas presents I ever gave were given when I had the least money to spare.

The year was 1904. My school was the same country school I had previously taught. I needed money to go to law school some twenty-five hundred miles away, where I planned to complete a whole year's work in the second semester of the college year, and where I could earn my expenses at the same time.

Christmas was coming up. Presents, worth keeping, for each pupil—forty-eight in number, ranging in age from six to twenty—were beyond my means.

I got a plain, white card, about 4½ inches by 7 inches, for each pupil, and on it wrote a laudatory comment regarding the lovely things, and a caution regarding other not so worthy things (if any), I had observed in each student; and then stated my faith in their future, if they continued to be true to the best in themselves, followed by a wish for a happy Christmas and a happy and successful future.

Those cards, I know, have been kept to this day, though some of the old pupils are now grandfathers and grandmothers.

I knew the youngsters intimately and loved them all. That may be the reason

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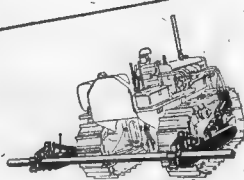
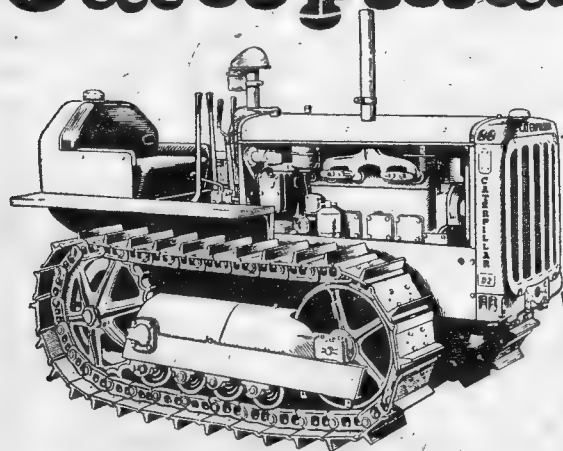
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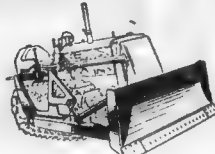
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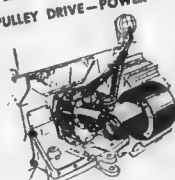
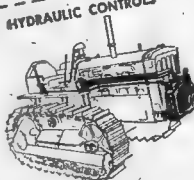
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Producers are hit by by-products price drop

TOP cattle selling at 26 cents a pound on western markets this month were about 24 per cent lower than corresponding grades one year ago. Retail beef prices have declined also but the decline has not been as marked and the drastic reductions in hide, tallow and casings values must account for much

of the discrepancy, it is pointed out by the Council of Canadian Beef Producers (Western Section).

Native (unbranded) hides that were worth 42 cents a pound in February, 1951, 37½ cents in May, 1951, and 25½ cents in September, 1951, sold at 14 cents a pound in July, 1952. Between February, 1951, and July, 1952, a 55-pound hide from a thousand-pound steer or heifer, dropped in value from

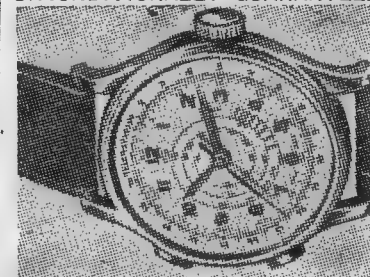
Answers to Canadian quiz

By GEOFFREY SHAWCROSS

1. The Monarch butterfly.
2. In the autumn, usually on some sunny afternoon, these insects form a great swarm and then, like the birds, fly southward to a warmer climate. They return, of course, the following spring.
3. On milkweed leaves.
4. The Striped Hawk Moth.
5. The rag weed.
6. Ten per cent.
7. The Marquis of Lorne, the Governor-General, in 1880.
8. Mrs. Watt of Canada.
9. At Denham College, the Women's Institute College, near Oxford.
10. Sir Allen Aylesworth.
11. The Alaska Boundary Tribunal of 1903, whose award he refused to sign.

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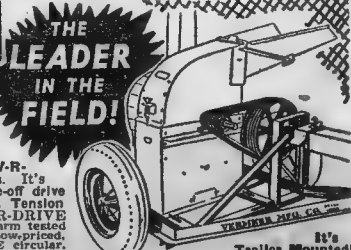
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\$23.10 to \$7.70. The drop in hide value alone represented the equivalent of slightly more than three cents a pound on a 500-pound carcass. It was a drop in return which widened the spread between live cattle and retail meat prices.

Casings and tallow reacted in the same way. The drop in casings was sufficient that some types are not being recovered at the present time which means that the edible meat must return a larger proportion of the investment in the live animal.

Since war years, all beef carcasses are de-fatted, i.e., suet in the kidney knob is not sold with the carcass. When fat and tallow sold at high prices, meat consumers felt some benefit in the prices they were required to pay. But edible tallow which commanded 21 cents a pound in March, 1951, and 12½ cents in October, 1951, brought only 4½ cents in August, 1952. Some retailers have been inviting customers to accept suet at no charge. Inedible fats were down to three cents. Between March, 1951, and August, 1952, the 50 pounds, more or less, of tallow

from a 1,000-pound animal shrunk in value by about \$8.00.

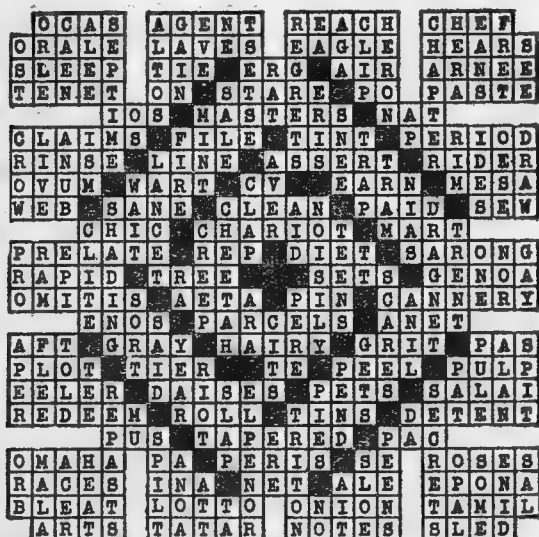
Between March, 1951, and August, 1952, the hide and tallow from thousand-pound butcher animals dropped by nearly \$24.00 per head, leaving the carcass and saleable meat to carry a bigger proportion of the cost of the live animal and handling.

U.S. wheat statistics

STOCKS of wheat carried over in the United States into the 1952-53 crop year totalled 254 million bushels, the smallest since 1948 and 80 million bushels below the average for the past 10 years, according to the United States department of agriculture.

By August 9th, only nine days after the beginning of the 1952-53 crop year, Canada had sold 46.8 million bushels of wheat under the International Wheat Agreement. Canada's quota for the year is 235 million bushels.

Solution to last month's puzzle



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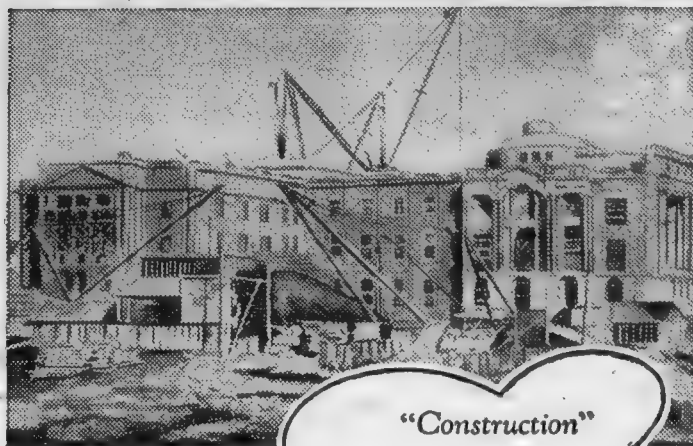
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"Construction"

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In practically every year since Alberta was formed, construction industries have shown healthy gains. Visible in Mrs. Armstrong's painting are some of the physical elements of building. In-visible aids include many services offered by Treasury Branches of the Province of Alberta.

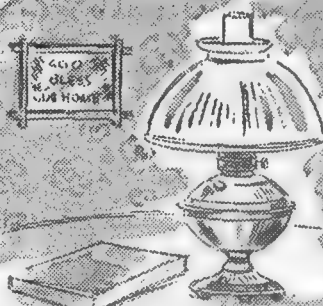
Construction loans, personal loans, safe keeping of valuables, money orders, two specialized savings systems—these are but some of the friendly, helpful services offered by your nearest Treasury Branch..... Get to know your Treasury Branch Manager—soon!

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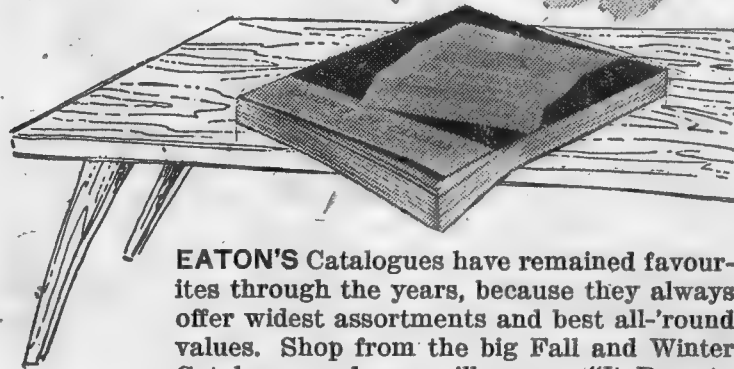
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if there is one in or near your town. You receive prompt, courteous attention, whether you place your order in person or by telephone.

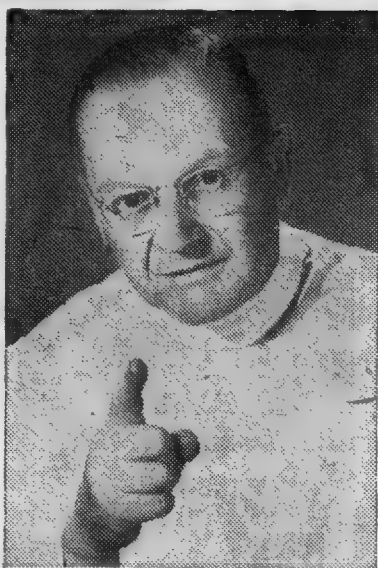
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Capacities of 7 to 9 tons on bodies up to 14 feet long. Twin lift also available with unit chassis and body sub-frame construction.

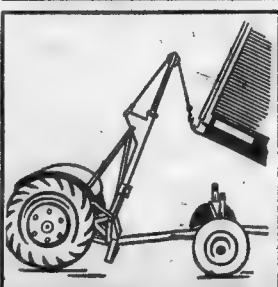
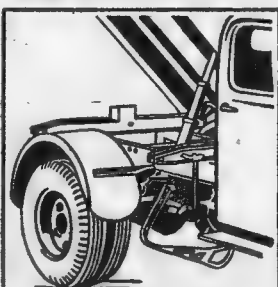
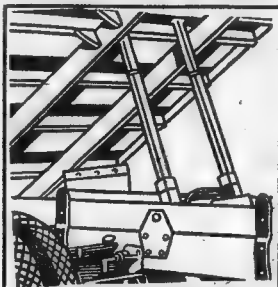
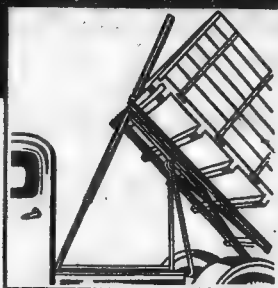
3-WAY LIFT—3-way tipping gear manufactured in four sizes ranging from 2 tons to 7 tons maximum capacity. This single ram hoist affords lower loading height, quicker discharge of load, and 20% saving in weight. Suitable for all makes and types of chassis, but specially adaptable to short wheel base chassis too cramped to mount other hoists easily.

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Simple care will make overshoes last longer

OUTFITTING the family with overshoes for wet, cold weather costs enough to make it pay to choose and care for them so they will last for several seasons, according to Julia E. Brekke, clothing specialist of NDAC Extension Service.

In women's overshoes, the fit of the heel is important. A small shoe heel can cut into the rubber of a wide overshoe heel, and a wide shoe heel can crush an overshoe heel too small for it. Instead of buying two pairs of overshoes, to suit high and low-heeled shoes, it may pay to investigate the various types of boots now made for women and teen-agers, that fit any type of heel. Some plastic boots have this advantage.

In caring for rubber footwear, remember that heat, oil and grease damage rubber, Miss Brekke suggests. So rubber overshoes or boots should never be kept or dried out near a radiator or in any hot place. Grease or oil should be washed off promptly with a cloth dipped in water containing a mild detergent.

Overshoes often get much unnecessary wear from "knocking around" the floor of closets. Plan convenient shelves or racks for them in a cool coat closet near the outside door or in a utility or wash room. Then, when muddy overshoes come home, they can be washed off promptly with cold water and set to dry on paper on these racks. They may need to be brushed or wiped out inside frequently to keep them from soiling shoes.

Plastic boots are popular for women because they are light

and compact, they can be carried in handbags. But, for heavy-duty or very cold weather, plastic may not be as good a choice as heavier overshoes.

World produces too much sugar

THE world is producing too much sugar.

That is the report in a special commodity memorandum on sugar prepared by the International Federation of Agricultural Producers.

"Sugar exporting countries are prepared to produce and supply more sugar than the importing countries are prepared to take," the IFAP memorandum states. "That is the essence of the world sugar problem."

Since the Napoleonic wars in Europe and since the turn of the century in United States, the memorandum says, governments have stepped into the sugar picture by encouraging development of sugar beet industries. Importing countries have done this to ensure a sugar supply in case of war, and because sugar beets are important to general farming since they fit well into crop rotation and provide an important source of animal food. However, the action of the governments in encouraging sugar beet development has been an important factor in creating the sugar surplus problem, according to the commodity memorandum. The other main factor is the great sugar producing potentialities of tropical cane growing areas.



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Farm and Ranch housewife

DEVOTED TO THE INTERESTS OF THE RURAL WOMEN OF WESTERN CANADA

Give your child a desk and make study easy!

By LOUISE PRICE BELL

A STUDY space for the grade or high school student is often a problem in the average home. The dining-room — or kitchen-table is often used even though poorly lighted and in bad locations — amidst the main stream of traffic in the home.

The ideal arrangement is a desk in each child's room, and if a regulation student's desk is not available, an old table sawed to the proper height, or an easily constructed drop-shelf will solve the problem, inexpensively.

Whether the desk is a miniature executive's lay-out or a hand-made corner built-in, there are certain standards that should be met. Desk tops should be at least two feet by four feet in area and twenty-five to thirty inches from the floor, depending upon the size and age of the child. The straight-backed chair, should be high enough to bring the child's eyes fourteen inches above the desk top.

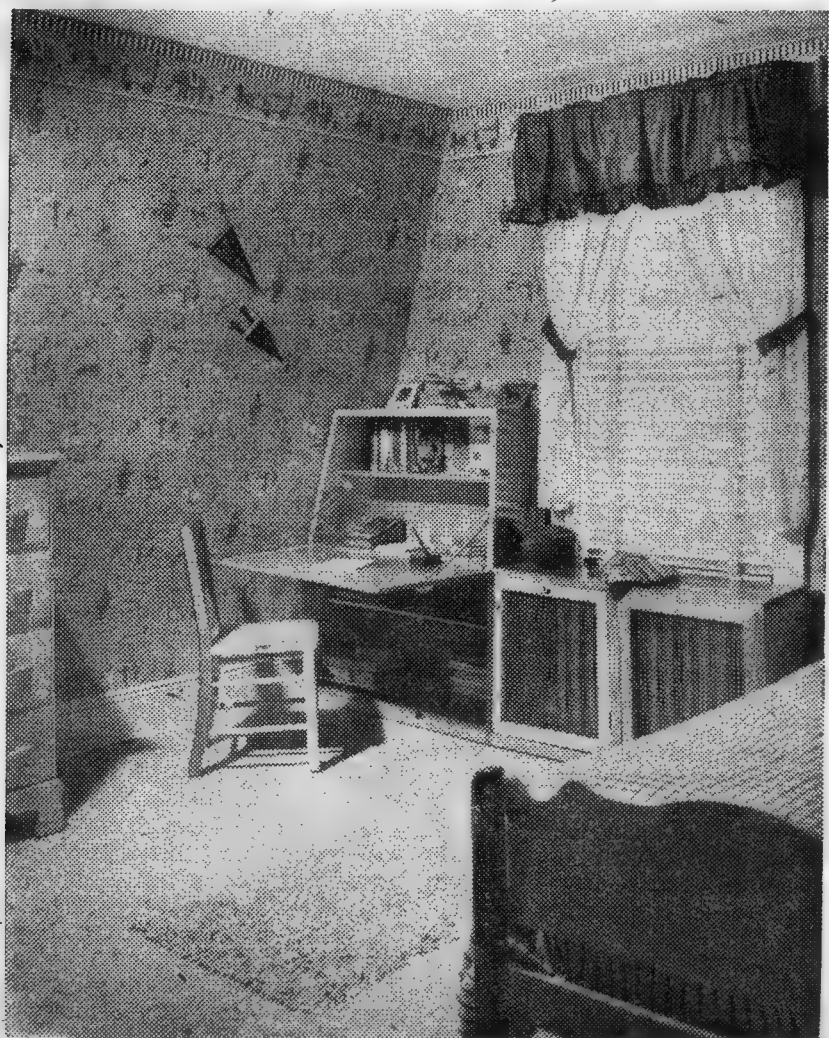
The lighting should be given special attention because of the danger of eyestrain in growing children. Lamps should be about two feet high with semi-direct lighting, high-watt bulbs, and good-size shades. If a table

lamp is used, it should be placed to the left and slightly forward from the back of the desk. Wall lamps should be high enough that the bottom of the shade is at eye level. Student lamps placed in the center of the desk should light the working surface.

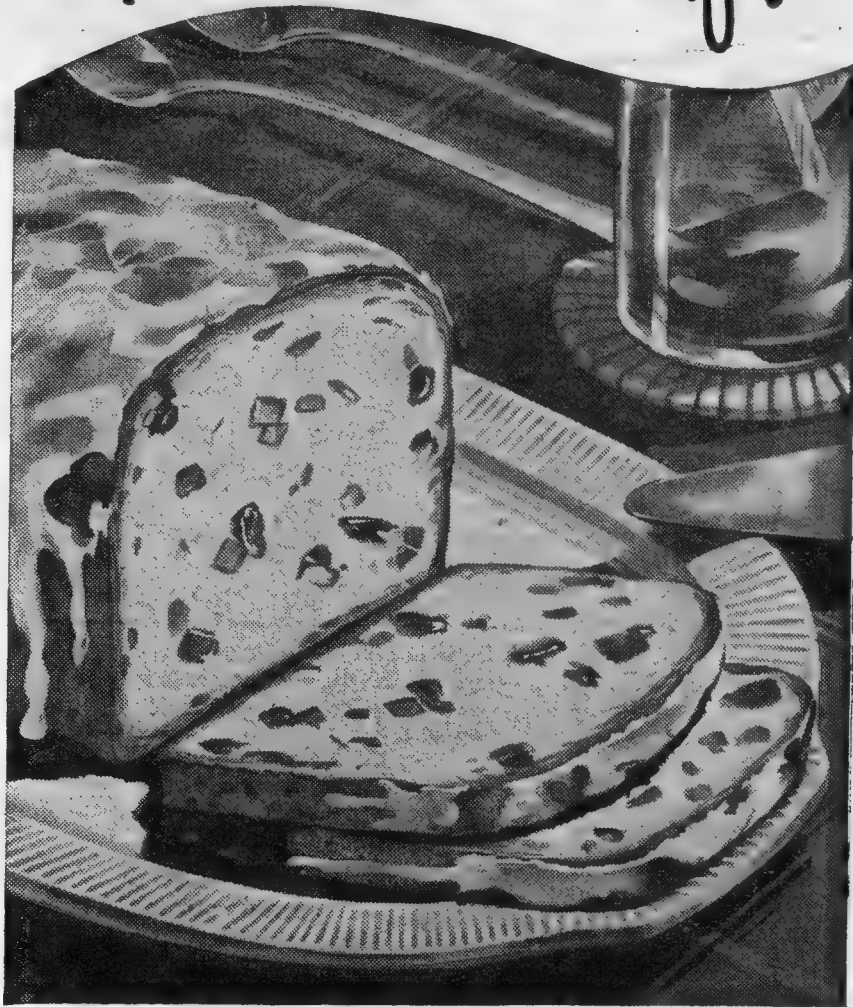
A shiny desk-top should be avoided as it is hard on eyes. A large blotter will reduce any glare and also protect the finish. Desk equipment should include pens, pencils, paper and reference books, and there should be special compartments or shelves, for the sake of order.

A dip pen of the reservoir type is recommended for children under high school age; one model of this type has the added advantage of being so constructed that it will not spill if accidentally overturned.

Soaking dirty clothes in cold water before washing can do more harm than good. A soaking of more than 10 or 15 minutes allows dirt to soak back into the fabric and cold water hinders the cleansing action of soap. Hot water opens the fabric mesh, permitting suds to circulate and loosen dirt.



Frosty fruit loaf!



So light and luscious — made with marvellous new fast DRY yeast!

● This is the kind of treat that makes men-folks wave their arms and say: "When will you bake some more?"

And you can plan plenty more sumptuous yeast bakings, once you have in your pantry a supply of the wonderful new Fleischmann's DRY Yeast!

Yes, this grand new yeast keeps fresh and full-strength on your pantry shelf. Unlike old-fashioned perishable yeast, it never lets you down through loss of

strength. Keeps vital and active, till you're ready to bake!

If you bake at home, you can really go to town now with hot rolls, buns, desserts, and bread! No change in recipes: one envelope of the new Dry yeast equals one cake of fresh yeast. Get several weeks' supply of Fleischmann's Fast Rising Dry Yeast and make this tempting Frosty Fruit Loaf tomorrow sure!

FROSTY FRUIT LOAF

Makes 3 Loaves

Measure into large bowl
 2/3 cup lukewarm water
 2 teaspoons granulated sugar
 and stir until sugar is dissolved.
 Sprinkle with contents of
 2 envelopes Fleischmann's
 Fast Rising Dry Yeast
 Let stand 10 minutes, THEN stir well.
 In the meantime, scald
 2/3 cup milk
 Remove from heat and stir in
 1/2 cup granulated sugar
 1-1/4 teaspoons salt
 6 tablespoons shortening
 Cool to lukewarm and add to yeast mixture. Stir in
 3 well-beaten eggs
 Stir in
 3 cups once-sifted bread flour
 and beat until smooth; stir in
 3 cups mixture of washed and dried seedless raisins, quartered candied cherries and slivered mixed candied peels
 Work in
 3 cups more once-sifted bread flour
 Turn out on lightly-floured board and knead dough lightly until smooth and elastic. Place in greased bowl, brush top with melted butter or shortening. Cover and set

dough in warm place, free from draughts. Let rise until doubled in bulk. Punch down dough and divide into 3 equal portions; form into smooth balls. Shape into loaves; place in well-greased bread pans (4 1/2" x 8 1/2", top inside measure and 2 3/4" deep). Grease tops. Cover and let rise until doubled in bulk. Bake in moderate oven, 350°, 45-50 minutes. Cool and ice with Plain Icing.

PLAIN ICING

Combine 1/2 cup sifted icing sugar
 2 teaspoons milk
 1/8 teaspoon vanilla
 and beat until smooth;



THERE is a certain type of question that is getting too frequently directed to my desk and that is asking me to sell certain articles for you through this page. For instance one reader asked me to try to sell her fur coat and another reader wanted to sell a little boy's baseball mitt. Goodness knows I'm really an easy mark when it comes to trying to help people who need help, as I'm sure these two do. But, please, dear readers, call a halt . . . I just

Let's Ask Aunt Sal . . .

can't either sell or buy articles. I did help two ladies through this page to advance certain types of home craft . . . but I think that was different. Honestly, don't you too.

Q.: I would like the sunbonnet quilt pattern, please.—(Mrs. O. W., Edmonton, Alta.)

This question was used in the September issue and brought in many fine letters which I for-

warded to Mrs. W. Thank you all so much.

Q.: How do you measure liquids in a recipe that calls for ounces?—(Mrs. A. T., Raymond, Alta.)

A.: One ounce liquid equals 2 tablespoons.

Q.: What causes cakes to split on top when baking?

A.: This condition in both butter and sponge cakes means that you've had too high a temperature when baking.

Q.: Where can a person send used Christmas cards and other pretty cards?

A.: The firm in England that used to accept these is now out of business so the only places I know are children's hospitals like the Shrine Hospital for Crippled Children in Winnipeg and the Red Cross Hospital in Calgary . . . but I'd advise you to write first and inquire whether they wish the cards before shipping.

Q.: Have you a good recipe for paste which can be made up in fairly large quantity for children to use and that will not mildew?—(Miss E. S.)

A.: Paste That Will Not Sour. Dissolve ½ oz. alum in 1 pt.

boiling water. Add equal weight flour that has been mixed into a little cold water. Add a few drops of oil of cloves and let the whole come to a boil. Put into jar or tin containers. Will keep for months.

Q.: Have you a recipe for a cake that calls for canned raspberries?—(Mrs. S. F., Derwent, Alta.)

A.: This is a fine recipe for a Berry Cake (any berries can be used although I have only tried blueberries). Using your favorite light cake recipe, bake it in two layers omitting the egg whites and when cakes are almost done remove from oven and place layer of fluffy egg whites and sugar on top of each layer and return to oven for 15 minutes more. Mash the berries with sugar and place layer of them on one layer and place other layer a-top. (Note: This may not be the recipe you mean.)

NOTE:—All readers are invited to send in their home-making problems to Aunt Sal in care of the Farm and Ranch Review. If you wish a private reply enclose a stamped, self-addressed envelope. Kindly limit one question to each letter. There is no charge for this service.



The Smiths aren't inhospitable, they just haven't checked the guest room mattress lately

It's **NO MYSTERY!** Guests Find More Comfort on a **PARKHILL**

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Country Diary

NOVEMBER is a nondescript sort of month—neither with October's brilliant coloring, nor white like winter's garb. Generally speaking it has a bad name in the calendar and poets of old have been only too ready to enlarge upon it. Their poetry suggests that November wears the raiment of mourning, lamenting autumn's departure and the coming of winter. Certainly the gloom theme predominated—"The month of November, and the weather a subject for prayer" according to Thomas Hood, who was inclined toward pessimism in most things; and of course it must be remembered that in the old land where he and his contemporaries lived, November was and is, well-known for its "melancholy days", dark, wet, foggy, bone-chilling, lacking the invigorating tang of our prairie weather.

For my part I can think up quite a few kindly facts about the maligned month. I have often known November to start with days of warm, glowing Indian summer. A cherished aster and goldenrod, pressed and dried, are labelled November 3, 1940. Then there may be a fall of snow, often temporary, a suggestion that winter must be prepared for in earnest. It is the last call for stacking wood, filling the coal-bin, putting on the storm fixtures, making lists [and not all too strictly utilitarian] of the nice cosy things we did not get last winter. Our visible assets may be "frozen", but it is just a matter of waiting, and all will be well. With

the chores all readied, let winter come.

November hath its charms. There are flashes of color even on the dark days. They glow in hearth and window, in Jonathans and MacIntoshes in snug lunch kits, in the cheeks of children as they run to school suited and mittened, scarved and capped in bright shades of red, in jars of fruit on cellar shelves that radiate last summer's warmth and golden sunshine. In city streets the gay lights shine out. It is a month for holding families together in the intimate atmosphere of farm homes, when evenings are spent with radio, books, friendly parties of song and games around the blaze in heater and fireplace.

When dark falls outside there shine the ancient lights of heaven, jewel-like, moving in order through the silent November night. There is the giant Orion, the tireless hunter, followed by Sirius the Dogstar and Perseus the brave adventurer. They must have been thus seen by primitive man himself—seen and feared, worshipped and sacrificed before, in dim pagan rites. As November wears on they travel a little deeper in the west, proving the cycle that appears to turn over us like a revolving roof.

The ubiquitous house-sparrow chirps his funny little song of two or three notes, hoping that some kind heart will hand out a meal. When others have gone, he stays, and has his place in the period "when no birds sing", cheering us on many a dreary day.

Aunt Sal suggests . . .

November is a dreary month . . .
Or so folks often say:
Let's try to get together,
And send some cheer your way.

I KNOW of no better way to buoy up one's own spirit than to give help to another. Maybe that sounds a wee bit preachy . . . but, honestly, friends, I mean it. The way you readers hop into this cheer-them-up act makes me want to do the same. Take for instance in the September issue when one reader asked for some new recipes made of sour cream or milk. That is a commodity that is generally pretty plentiful round a country home. And even in a city home where the housewife saves every drop of sour cream, caches it in an earthenware pitcher and puts a plastic cap on it waiting until she has the required cupful so she can start baking something special. And what is that "something special"? Nine times out of ten it is a chocolate cake. Almost all of us have one pet recipe for sour cream chocolate cake. Dozens of you sent a copy of your own recipe to me. But there are many other fine recipes, too, calling for that inevitable one cup of thick sour cream.

But I didn't realize just how many recipes there were. That was proven to me by your letters . . . and how! Up to this date you sent me 88 sour cream recipes. I told you that the first dozen would win a snapshot of this lady . . . but I'll confess that I got the letters so jumbled up that I can't, for the life of me, tell which letters arrived first or last. Serves me right for being so unsystematic in my work. Therefore, I went down town today and ordered nearly 100 reprints of a half-decent negative of myself. I wish I had some disinterested party to pop them into an envelope and mail them out to you. Oh, how terribly weary I'm going to get looking at all those reproductions of this same old face.

Chocolate cakes won first place in popularity, so I'll choose one of them for first position.

Sour Cream Cocoa Cake — (Mrs. M. M. S., Faith, Alta.)

3 eggs, $1\frac{1}{2}$ cups sugar (white or brown), $1\frac{1}{2}$ cups sour cream, 2 cups flour, 1 tsp. soda, dissolved in a little hot water, 1 tsp. baking powder, $\frac{1}{4}$ tsp. salt, vanilla.

Method: Mix in order given, beating eggs until light and beating in sugar gradually with egg beater. Beat all together until very light with large spoon. Bake in moderate oven.

Sour Cream Frosting—(Mrs. M. H., Struan, Sask.)

1 cup brown sugar, $\frac{1}{4}$ cup sour cream, $\frac{1}{8}$ tsp. soda, 1 tblsp. butter, $\frac{1}{2}$ tsp. vanilla.

Method: Boil sugar, cream and soda to soft-ball stage. Add vanilla and beat until it changes color or right consistency to spread. (I sprinkled nuts over it at once . . . but good enough without.)

Fruit Cake — (Mrs. M. E., Lethbridge, Alta.)

$\frac{1}{2}$ cup butter (not needed if cream very rich), 3 eggs, $2\frac{3}{4}$ cups brown sugar, 2 cups thick sour cream, 1 lb. currants, $\frac{1}{4}$ lb. mixed peel, 1 nutmeg grated, 2 lbs. raisins, $\frac{1}{2}$ lb. dates, $\frac{1}{2}$ lb. almonds or walnuts, 1 tsp. soda, 1 tsp. salt, 1 tsp. each vanilla and lemon flavoring, 4 cups all-purpose flour.

Method: Cream sugar and butter, add eggs, and cream. Sift all dry ingredients and floured fruits. Bake in moderate oven about one hour. Good news: This can be used as soon as cold . . . does not have to season!

Sour Cream Muffins — (Mrs. E. R., Asquith, Sask.)

1 cup sour cream, 1 tblsp. melted butter, 2 tblsp. sugar (I used brown), 1 well-beaten egg, $\frac{1}{4}$ tsp. soda, 1 tblsp. cold water, $1\frac{1}{2}$ cups flour, 1 tsp. baking powder, $\frac{1}{4}$ tsp. salt.

Take care when mixing do not beat, just fold in gently and then bake in hot oven 15 to 20 minutes.

Rolls Oats Cookies — (Mrs. V. C. H., Beaverlodge, Alta.)

1 cup shortening, 1 cup white sugar, 2 tblsp. peanut butter, $\frac{1}{3}$ cup golden syrup, 2 eggs. (Combine these first five and beat well). Sift together these . . . 2 cups flour, 1 tsp. soda, 1 tsp. nutmeg, $\frac{1}{3}$ tsp. salt. Add these to first mixture alternating with 2 cups rolled oats and $\frac{1}{3}$ cup sour milk . . . (or sour cream and less shortening). Drop from spoon onto greased cookie sheet. Bake until golden brown in moderate oven.

Sour Cream Raisin Pie — (Mrs. M. E., Trail, B.C.)

1 cup thick sour cream, 2 well-beaten eggs, $\frac{1}{2}$ cup sugar, 1 cup raisins, $1\frac{1}{2}$ tblsp. flour, $\frac{1}{8}$ tsp. salt, $\frac{1}{8}$ tsp. cinnamon, $\frac{1}{2}$ tsp. cloves and nutmeg.

Combine all ingredients and pour into unbaked pie shell. This forms nice brown crust on top.

There are the first half-dozen that I have tested . . . eaten (at least my share of them) and liked so much. Only wish I had room to pass on the rest of the 82. All of them sounded delicious. However, I have chosen some especially suited for Christmas cooking for the December issue.

Bye-bye for now . . . and every good wish.

Aunt Sal.



Mocha Masterpiece

Make it yourself with **MAGIC!**

What woman wouldn't thrill with pride to be able to say "I made it!" and what man could resist a second helping from this perfect dream of a cake! Coffee-flavored . . . flecked through with dark chocolate chips . . . spread billowy-deep with fragrant coffee frosting!

And rest assured, Magic makes it light as chiffon! You're certain of your cake when you choose your own ingredients — then safeguard them with Magic Baking Powder. Put Magic on your grocery list today. It costs less than 1¢ per average baking, and makes such a difference!



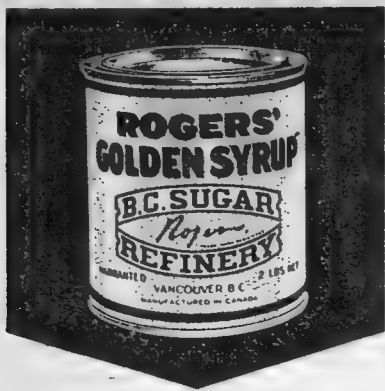
MAGIC MOCHA CHIFFON CAKE

$2\frac{1}{4}$ cups sifted cake flour
3 tps. Magic Baking Powder
1 tsp. salt
 $1\frac{1}{2}$ cups fine granulated sugar
 $\frac{1}{2}$ cup salad oil
5 unbeaten egg yolks

$\frac{3}{4}$ cup cold strong coffee
1 tsp. vanilla
3 ounces chilled semi-sweet chocolate, thinly shaved
 $\frac{1}{2}$ tsp. cream of tartar
1 cup egg whites

Sift flour, Magic Baking Powder, salt and sugar into mixing bowl. Make a well in the centre of flour mixture and add salad oil, egg yolks, coffee and vanilla; mix these liquids a little with mixing spoon, then combine with flour mixture and beat until smooth. Add chocolate and beat to combine (a potato peeler shaves chocolate thinly). Sprinkle cream of tartar over the egg whites and beat until very, very stiff (much stiffer than for a meringue). Gradually fold

egg-yolk mixture into the egg-white mixture. Turn into ungreased 10" deep tube pan (top inside measure). Bake in rather slow oven, 325°, $1\frac{1}{2}$ to $1\frac{3}{4}$ hours. Immediately cake is baked, invert pan and allow cake to hang, suspended, until cold. (To "hang" cake, rest tube of inverted pan on a funnel or rest rim of pan on 3 inverted small cups.) Remove cake carefully from pan and cover with a brown-sugar 7-minute frosting in which strong coffee is used in place of the usual water.

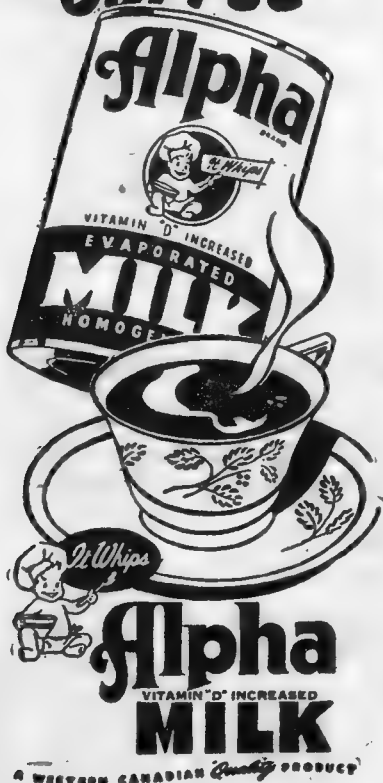


**A WONDERFUL
Quick Energy
FOOD**

GOOD SO MANY WAYS!

**ROGERS'
GOLDEN
SYRUP**

**BEST—in
COFFEE**



Your sick children don't have to be miserable

By LOUISE PRICE BELL

IN every home where there are youngsters, there are sure to be many stay-in-bed days. Modern mothers know that the best way to eliminate the "sniffles" in their offspring is to keep them on a light diet, and in bed. The many common child ailments, such as measles, chicken-pox, mumps, although not serious in themselves, respond quickly and well if the small subjects are kept quiet. More serious illnesses, such as small-pox, pneumonia, and diphtheria are sure to mean rather long convalescent periods, and when children are unfortunate enough to sprain or break an arm or leg, the misfortune usu-

far from wise. Youngsters punished in this way are pretty likely to be those who fuss when bedtime draws near, and are the most difficult ones to keep happy when illness forces them to spend a few weeks, or even days, confined within the walls of their rooms.

Easy Does It

If a child's attitude has been correctly developed, convalescent periods won't be difficult. Children who are taught to be resourceful will find all sorts of interesting things to do, even while having to remain quite inactive. Coloring books, pegboards, design blocks, even small trains and engines for



ally means that they will spend some time in bed.

Even though Stevenson calls this place the "Pleasant Land of Counterpane," the small fry are not likely to feel the same way about it unless the proper attitude has been developed. Sending a child to bed for punishment is poor psychology; he at once associates unpleasantness with his bed, and that is

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boys and doll houses for girls can be managed on sizeable bed-trays. If your home lacks one of these handy folding gadgets, a conventional card table will be a perfect substitute . . . in fact, offers more room for a place table than a bed tray does.

Open two legs, stand them on the floor close to the bed; rest the opposite side of the table, with folded legs, upon the firm pillow or tightly-rolled blanket. A plastic-topped card table is ideal, since everything will wipe off its surface. Lacking this, it's a good idea to buy a yard-square-piece of plastic or oil-cloth and thumb-tack it under the table-edge. Choose a color that the small invalid likes, or a sunny yellow that will seem to bring sunshine into the sick room on even the darkest, dull-est days. Plastics are impervious to stains and grease, and if soup, milk or water-colors are spilled, no harm will be done since the material doesn't absorb moisture.

Honesty is important at all times and this is particularly true when children are ill and some unpleasant task must be performed. If a throat has to be

swabbed, explain that it will not be pleasant but that the act will be a "quickie" and will mean more comfort afterward. Some medications are unpleasant to take so when the wary smallest questions their flavor, be frank in your reply. If the medicine is bitter, tell him so, but at the same time, give him a rosy apple or glass of orange juice. Remember that children who are not treated fairly are bound to feel insecure.

The Radio Helps

Transfer the family radio to the sick room, if there is none there, and offer favorite programs as incentive to rest-periods. Make the mealtime trays as attractive as possible, by using bright tray cloths or place mats, amusing paper napkins, and different china and glass-ware for each meal. Convalescents are likely to have delicate appetites, or to be temporarily "finicky", so avoid large portions of food (even if they are allowed), since a full plate often discourages listless appetites. Sick-a-beds need wholesome, nourishing food; well cooked, daintily served meals are pretty sure to appeal. Offer a surprise occasionally, even if it is nothing more than serving hot chocolate in a special blue heirloom cup and decorating the floating marshmallow with a chocolate-featured face . . . or cutting the child's favorite sandwiches with animal cutters. These things take very little extra time and are worth the effort in the resultant delight and prompt consumption on the part of the child.

Since every home is sure to have one or more children in bed at times, the wise mother faces the fact — not with discouragement and annoyance — but with a sense of understanding and a desire to make the periods as pleasant as possible.

The Dishpan Philosopher

COLUMBUS with his little ships, upon the first of his great trips, took sixty days to cross the main between this continent and Spain. Or maybe it was rather more before they found a friendly shore, and what was suffered on the way we scarcely can believe today. Though just five centuries or so have passed since then, as records show, in these our own fantastic days the self-same trip is made, both ways, in one day's time or somewhat less; and that without the strain and stress the bold Columbus had to meet and conquer or admit defeat.

I wonder then why people scoff at talk of fliers taking off for interplanetary space? Since change has hit a headlong pace may we not yet immortalize a new Columbus of the skies?

**"SALADA"
TEA**

*Asked for
oftenest*

What you didn't know about baths and tubs

THE history of bathtubs dates back further than the days of the Saturday night wash tub in the kitchen. Today's housewives may point with pride to their modern tiled bathrooms, but at least three thousand years ago the Greeks and the Romans had tiled bathrooms with water piped into their houses. And, of course, in the third century B.C. Archimedes conceived his famous law of buoyancy while sitting in his marble tub, says an article in the current issue of C-I-L Oval.

The article, entitled "The Order of the Bath", points out that fragments of crude tubs fashioned from wood, clay and stone show that primitive man bathed for both cleanliness and pleasure. The Bible also mentions bathing pools frequently.

The 1,000 years following Rome's decline, known as the Dark Ages, were grimy as well as dark. Bathing lost popularity. Francis I of France, for example, boasted that he never washed. Oriental hospitality, however, continued the tradition of offering guests a bath or at least bathing their hands and feet. The Crusaders were said to have brought this refreshing habit back to England.

Henry IV of England is reported to have instituted the Order of the Bath in 1399 when his nobles appeared before him sweat-stained and bloody after battle. Queen Elizabeth I gave her royal sanction to bathing and was said to "bathe once a month whether she needed it or no".

The coming of the portable tin tub was a foretaste of the important role that metals and

particularly iron would play in the bathroom. These tubs became universally popular in England and the travelling Englishman carried his tub and his bathing habit to all parts of the world.

Later France invented the slipper bath. Made of copper in the form of a lady's shoe, its high sides modestly concealed the bather. This was followed by the sofa bath, a metal tub enclosed in cane or wood to make an ornamental piece of furniture.

In America bathing got off to a slow start. Hardy souls enjoyed a dip in the lakes or rivers, but not until bathtubs began arriving on ships from Europe did the bath win any popularity. Then once a week was considered plenty and the Saturday night tub became a family institution.

In Victorian days the wealthy owned ponderous marble tubs, gradually replaced by solid porcelain. The wooden tubs owned by the average family gave way to those lined with metal and the next step was to painted metal tubs.

A radical change in the manufacture of bathtubs occurred in North America when the first cast-iron enamelled tub was made about 1870. Similar tubs were first made in Canada at Port Hope, Ont., and from that time became best sellers.

To avoid having to dip into the wax can every few minutes when waxing a floor, an old sock can be filled with wax and applied by rubbing lightly over the floor.

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Los Angeles		75.35	75.35	71.30	61.65
Toronto		47.20	56.55	76.60	76.60
Montreal		59.25	68.60	88.65	88.65
Chicago		30.15	38.65	59.35	59.35
New York		62.50	70.95	91.65	91.65

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VICTORIA

PRINCE RUPERT

MENTION THE FARM AND RANCH IN BUYING PRODUCTS
SHOWN IN THIS ISSUE.



"My wife noticed in that Royal Bank book on Farm Improvement Loans that it included electric ranges, refrigerators and washing machines. So when I took a loan to electrify the farm we did the job right and fixed up the kitchen, too. Now look what we've got—all the conveniences of city life—plus all the joys of country living."

FARM IMPROVEMENT LOANS
can also be used for

- New implements, machinery and equipment.
- New foundation or breeding livestock.
- Construction, repair or alteration or any building on the farm.
- Fences, drainage and other developments.

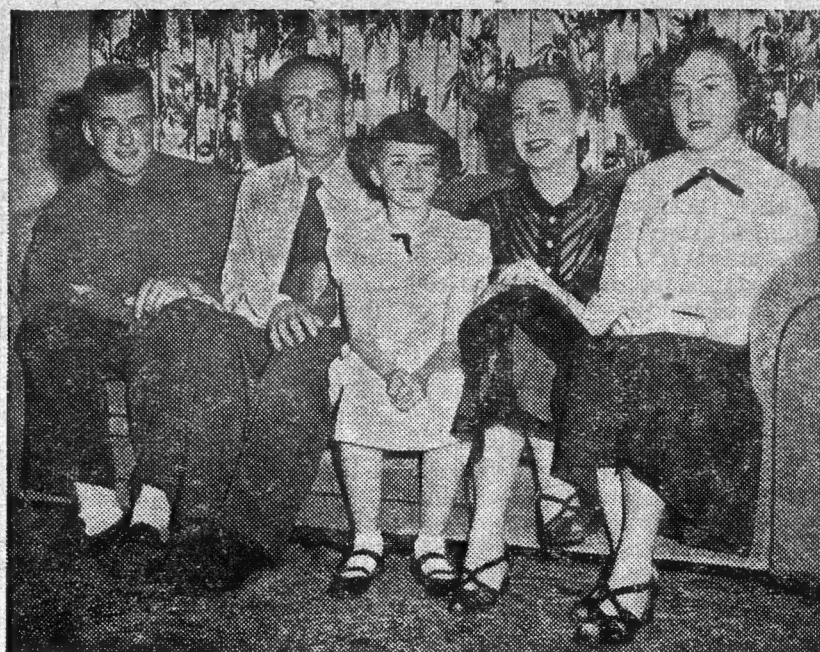


Ask for a copy of this booklet. It tells all about farm improvement loans.

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The Lewis family of "Green Acres Farm" at Winterburn, was named a Master Farm Family for 1952. This picture, taken in their modern home shows, from left to right, Jack, Mr. Lewis, Carol, Mrs. Lewis and Beth.

Big Investment in Saskatchewan

SASKATCHEWAN is now in first place among Canadian provinces in the value of machinery and equipment owned by farmers.

According to the 1951 census Saskatchewan farmers' machinery and equipment are valued

at \$525,600,000. Ontario is second with \$445,300,000. Alberta is third with \$390,000,000, and Manitoba fourth with \$231,800,000. Out of the total of nearly \$2,000,000,000 for all of Canada, farmers in the prairie provinces own \$1,147,000,000 worth or 59 per cent of the total.

Solution to last month's puzzle

BAIL	STOWS	DOUBT	CAMS
MANSE	TENET	INTER	OVENS
AROMA	ORA	RAS	ENE
PINSK	AN	DITTO	DA
	APT	REDOUBT	TIE
ENGAGE	TUNE	RISE	STORES
PELEE	KANT	OBTUSE	ELATE
ELIS	LAGS	UP	NARK
ELM	PANS	PRUDE	USES
	ARIA	WEASELS	ENAM
PATRICK	ALL	NEAP	TIERED
AMAIN	ARIL	CLIP	LEONA
SELECT	STET	ATE	SPOTTED
	LEAF	STRIVES	AIRS
LAP	SIRE	SIDED	ALMS
ALAE	LEAR	ES	ALMA
MORRO	TRENDS	TIPS	ADITS
BEREFT	SEAR	MATS	TRICOT
	FIR	DROVERS	GAR
ABASE	OG	DUELS	TU
DINER	ALP	GET	PRE
ADORE	NEIGH	ERIES	ANISE
BAAR	SENAT	DATES	LADS

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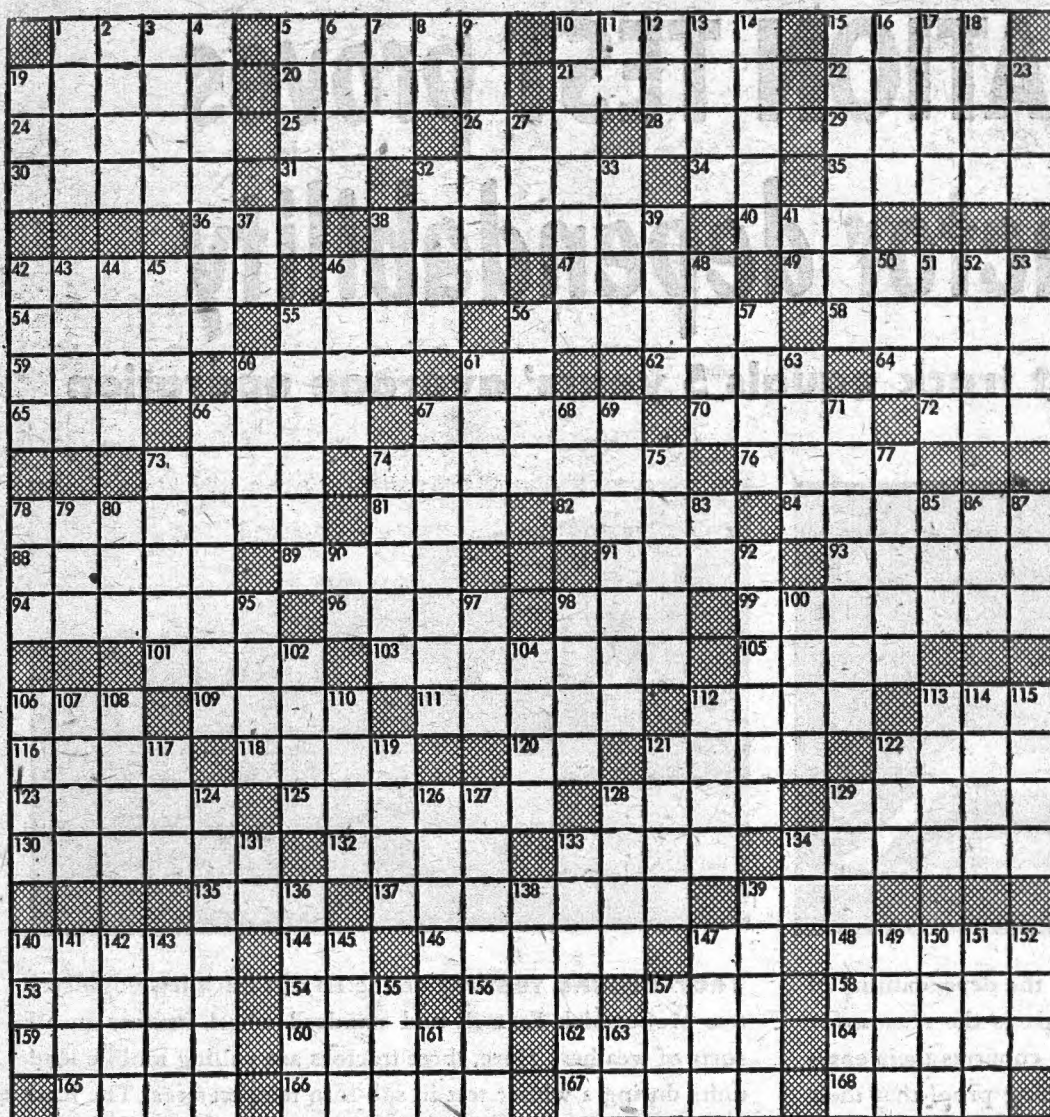
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OUR CROSSWORD PUZZLE



HORIZONTAL

- 1 Germinated grain material
5 To cut the hair from
10 Small European herring
15 Magnitude
19 A kind of smoke
20 Dike
21 Fruit
22 Give a wavy appearance to
24 Angry
25 Before
26 Also
28 Stinging insect
29 Fuller grown
30 Challenges
31 Plural ending
32 French landscape painter
34 Japanese measure
35 To emerge
36 Summit
38 Pertaining to a very stupid person
40 Part of skeleton
42 Defensive building
46 Enclosed work possessing bastions
47 Lived 905 years
49 Singing voice (pl.)
54 Cognizant
55 Large dog
56 Negotiates
58 Number
59 ---- Turner
60 Pierce with pointed weapon
61 Correlative of either
62 Powdered soapstone
64 Author of "Two Years Before the Mast"
65 Caustic compound
66 Obligation
67 British street cars
70 365 days
72 Once around track
73 American Indian
74 To pound fine
76 Eating regimen
78 Facts kept from knowledge of others
81 To assist
82 Antlered animal
84 Fastened securely
88 Sign of the Zodiac
89 Smart
91 Anglo-Saxon slave
93 Backbone
94 Envelop
96 Seaweed
98 Skill
99 Abnormally enlarged
101 Dregs
103 Upper branch of legislature (pl.)
105 Geometric figure
106 The urinal
109 A bristle
111 Speeded
112 Courts
113 To talk idly
116 ---- Brinker
118 Fodder storage pit
120 Canadian province (abbr.)
121 Flying creature
122 Girl's name
123 ---- Dunne
125 To dwell
128 Fourth-down tactic in football
129 Declare
130 To hinder
132 Inferior Mohammedan magistrate
133 Withered
134 Substance
135 199 (Roman num.)
137 Disproves
139 Rotating piece
140 The last
144 Syllable in scale
146 Behind
147 Naga Hills tribe, India
148 Force with legal authority
153 With full force
154 High mountain
156 Elongated fish
157 Abstract being
158 Oil of roses
159 To divide into two equal parts
160 Blotch
162 A dormouse
164 Middles
165 Observes
166 Seasons
167 Pseudonym
168 Stitches

VERTICAL

- 1 A variable star
2 Culture
3 Tardy
4 Braced framework for railroad
5 Slumber
6 Pronoun
7 First woman
8 Denoting unfit ship in Lloyd's register
9 Sharp answer
10 One who makes love in silly, sentimental way
11 Hebrew letter
12 Beater used in mixing mortar
13 Genus of maples
14 Pronoun
15 Writers
16 Flower
17 Gives snap to (colloq.)
18 Ostrichlike bird
19 Spanish hero
23 Prefix: before
27 Gold in Spanish American countries
32 Cereal grain
33 Prong of fork
37 Faroe Islands' windstorm
38 Ancient kingdom east of Dead Sea
39 Outer garment
41 Pronoun
42 A shout
43 Absent
44 Lucid
45 Malay pew-ter coin
46 To whip
48 To remain
50 Man's nickname
51 Elliptical
52 Rockfish
53 Cooky
55 To bear witness to
56 Receptacle for dishes
57 Winter vehicle
60 Fat
61 Toward the mouth
63 Brother of Abel
66 Puts on apparel
67 Roy Rogers' horse
69 Scoffed
71 Motives
73 Wicker basket for fish
74 Ladies water from boat
75 An adventure (pl.)
77 Guitar with ten strings
78 A capuchin monkey
79 Sea eagle
80 104 (Roman num.)
83 Symbol for radon
85 Girl's nickname
86 Compass point
87 Lair
90 Sun god
92 To accompany
95 Golf mounds
97 Collection of facts
98 The sweetsop
100 Dense growth of trees
102 To agitate
104 Skin disease
106 To gather material
107 Rabbit
108 The dill
110 Fish sauce
112 Beverage
113 Insect
114 Poker stake
115 Alcoholic beverage
117 Nahoor sheep
119 Eskers
121 Prickly envelope of fruit (pl.)
122 Slime
124 Weasels
126 Notion
127 Disagrees
128 Equal
129 Small Chinese boats
131 The gods
133 Girl's name
134 Child for "mother"
136 Grade
138 American Indian
139 Expenditures
140 Angel set over moon in Persian mythology
141 Candlenut
142 Healthy
143 Plunge
145 Character in Spenser's Faerie Queens
147 Ox of the Celebes
149 American Indian
150 To store
151 Without
152 Bitter vetch
155 Swordsman's dummy stake
157 Silkworm (var.)
161 By
163 North Syrian deity

SOLUTION NEXT MONTH

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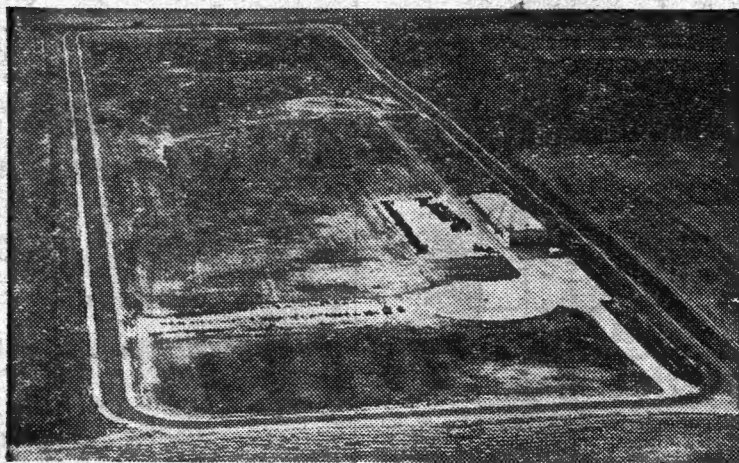
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and DAWSON CREEK, B.C.	

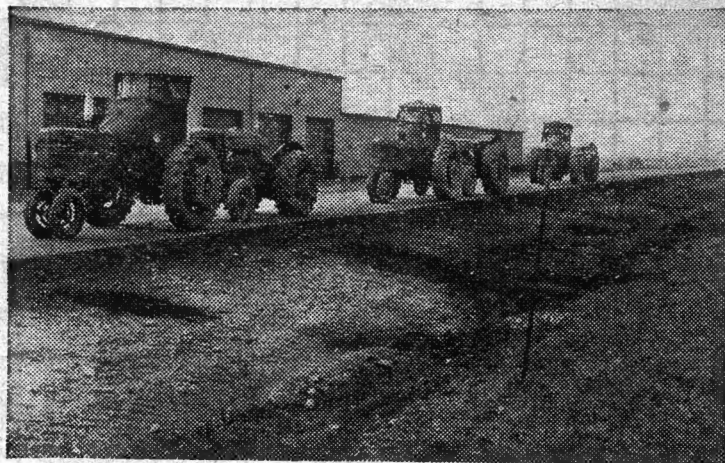
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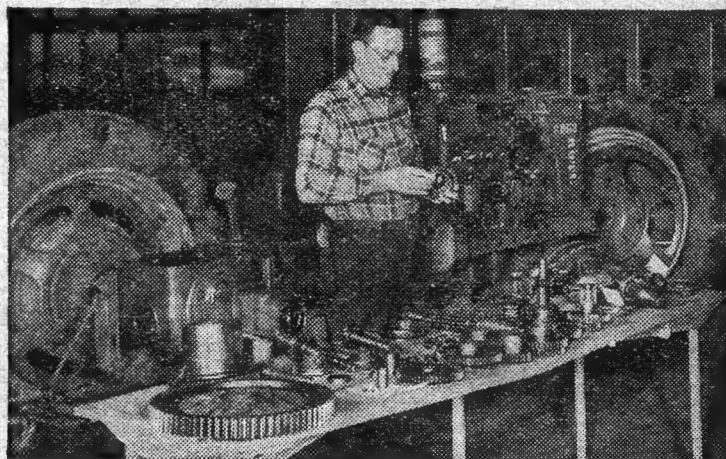
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Year-around testing on the IH test track lets engineers test McCormick Farmall and standard wheel tractors in all sorts of weather. Here, three tractors are pulling mobile load units during a winter test in sub-zero temperatures. The load units permit varying or constant loads.



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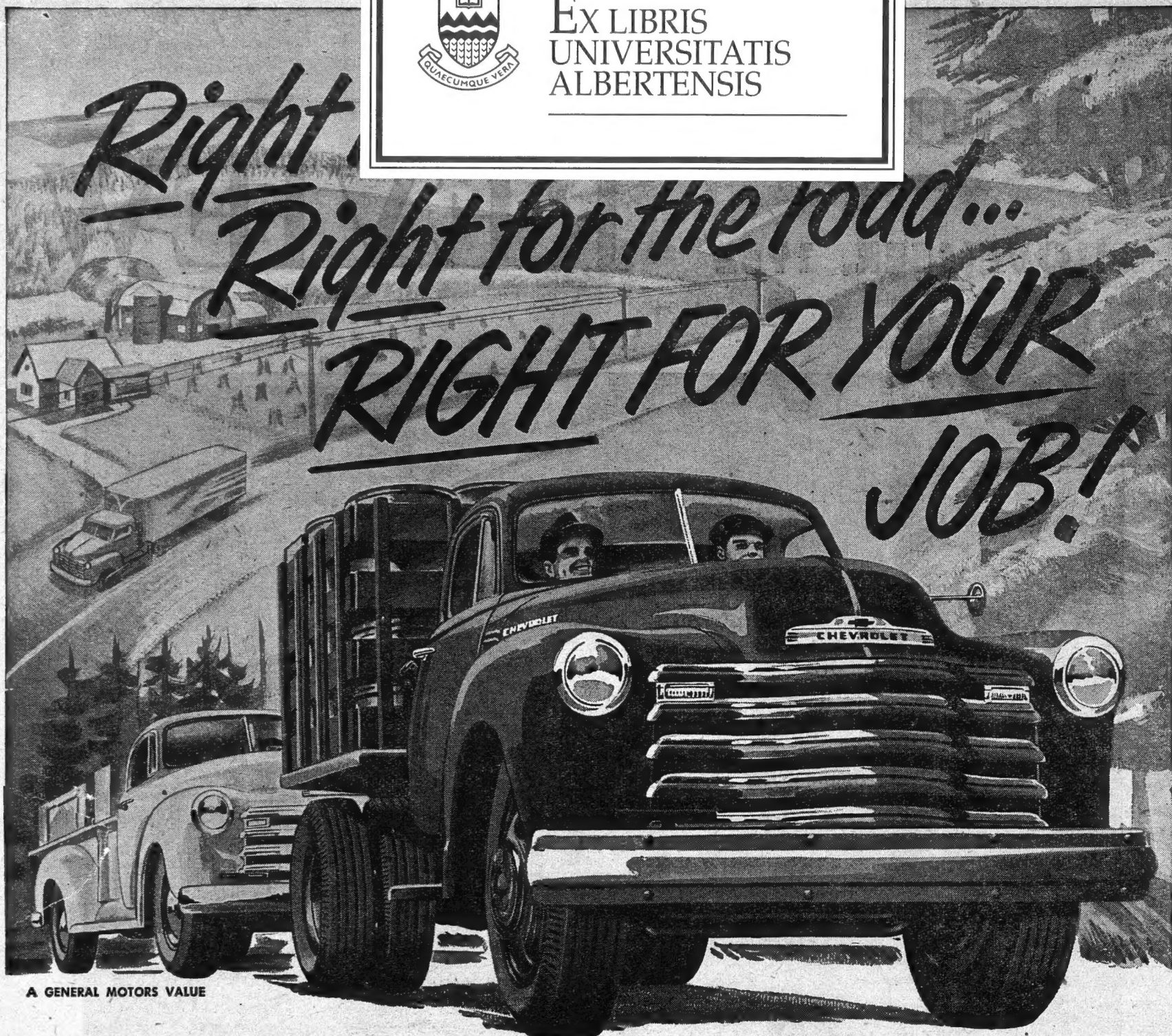
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